

PVM-2042QM/2044QM

SERVICE MANUAL

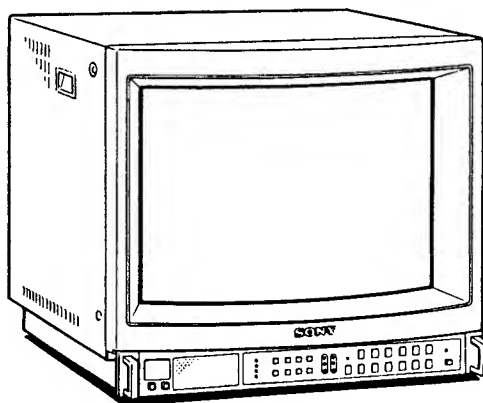
6865
AEP Model

PVM-2042 QM

Chassis No. SCC-C74C-A

PVM-2044QM

Chassis No. SCC-C74B-A



SPECIFICATIONS

Video signal

Frequency response

Line input: More than 7 MHz (−3 dB)
Y/C input: More than 8 MHz (−3 dB)
Component input (Y/R-Y/B-Y): More than 8 MHz (−3 dB)
R.G.B. input (analog): More than 9 MHz (−3 dB)

Chrominance subcarrier attenuation

3.58 MHz: Less than −30 dB (comb filter)
4.43 MHz: Less than −36 dB (trap filter)

Band pass

3.58 MHz: 2 MHz equiband
4.43 MHz: 2 MHz equiband

Chrominance/luminance time error

Composite: Less than ±100 ns
Y/C Video: Less than ±50 ns
Component: Less than ±50 ns

Aperture correction

−4.5 to +6.5 dB (at 4.5 MHz)

Synchronization

AFC time constant: 1 msec

Line pull range

Horizontal: ±500 Hz
Vertical: 8 Hz

Picture performance

Normal scan 7% overscan of CRT effective screen area
Under scan 3% underscan of CRT effective screen area
H. linearity error Less than 8%
V. linearity error Less than 7%
Convergence Central area: 0.7 mm (Typical)
Peripheral area: 1.3 mm (Typical)

Raster size stability

H: 1.0%, V: 1.5%

High voltage regulation

4%

Audio output

0.6 W (Max.)

CRT

EBU phosphor

Color temperature

6,500K/9,300K (+8MPCD), selectable

Inputs

For both models

VIDEO IN: BNC connector
AUDIO IN: Phono jack
VTR: 8-pin connector (See "VTR connector" on page 14.)
Y/C-INPUT

VIDEO: 4-pin DIN connector (See "Y/C-INPUT connector" on page 15.)

AUDIO: Phono jack

PVM-2044QM only

EXT SYNC: BNC connector
composite sync 1-4 Vp-p, negative, 75 ohms terminated, automatically released when cable is connected to the output connector.

ANALOG RGB/COMPONENT: BNC connector

R, G, B and Y channels: 0.7 Vp-p, ±6 dB, non composite

R-Y and B-Y channels: 0.525 Vp-p, ±6 dB

(Standard color bar signal of 75-percent chrominance)

When the composite signal is fed to the G or Y channels, the monitor can be activated in the internal sync mode.

75 ohms terminated, automatically released when a cable is connected to the output connector.

CTRL S: Minijack

PVM-2042QM only

EXT SYNC: BNC connector

composite sync 1-4 Vp-p, negative, 75 ohms terminated, automatically released when cable is connected to the output connector.

ANALOG RGB: BNC connector

0.7 Vp-p, ±6 dB, non composite

75 ohms terminated, automatically released when cable is connected to the output connector.

DIGITAL RGB: 9-pin connector (See "DIGITAL RGB connector" on page 14.)

CTRL S: Minijack

— Continued on next page —

TRINITRON® COLOR VIDEO MONITOR
SONY®



Outputs

For both models

VIDEO OUT: BNC connector
Loop-through
AUDIO OUT: Phono jack
Loop-through

PVM-2044QM only

EXT SYNC: BNC connector
Loop-through
ANALOG RGB/COMPONENT: BNC connector
Loop-through
CTRL S: Minijack
Loop-through

PVM-2042QM only

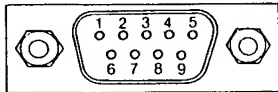
EXT SYNC: BNC connector
Loop-through
ANALOG RGB: BNC connector
Loop-through
CTRL S: Minijack
Loop-through

General

AC regulation range 220 - 240 V AC, 50/60 Hz
Power consumption Approx. 98 Wh
Operating temperature range 0°C to +35°C (32°F to 95°F)
Dimensions Approx. 452 × 458 × 513 mm (w/h/d)
(17⁷/₁₆ × 18¹/₁₆ × 20¹/₁₆ inches)
Weight Approx. 31 kg (68 lb 5 oz)
Supplied accessory Rack mounting bracket (for EIA standard racks)
(1 set)

Pin assignment

DIGITAL RGB connector (9-pin)



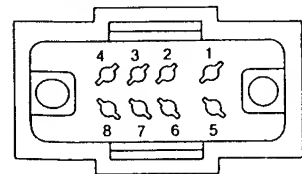
Pin No.	Signal	Signal level
1	GND (ground)	GND
2	GND for the signal	GND
3	Red input	Positive polarity (TTL level)
4	Green input	↑
5	Blue input	↑
6	Intensity	↑
7	NC (no connection)	↔
8	H-SYNC	Positive or negative polarity (TTL level)
9	V-SYNC	Same polarity as H-SYNC (TTL level)

Note

If the intensity function of Pin No. 6 is not used, set the internal switch on the Qd board to the B position, and connect the Pin No. 6 to the GND. With this setting, when the positive intensity signal synchronized to the characters on the screen is fed, the luminance of the characters will be increased.

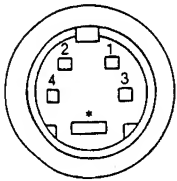
If the specific intensity function, such as that of an IBM microcomputer, is used, set the internal switch on the Qd board to the A position, and feed the intensity control signal to Pin No. 6.

VTR connector (8-pin)



Pin No.	Signal	Description
1	Audio input	-5 dBs, high input impedance (more than 47 kilohms)
2	Video input	Composite 1 Vp-p, sync negative, 75 ohms
3	GND	GND
4	NC	↔
5	GND	GND
6	GND	GND
7	GND	GND
8	GND	GND

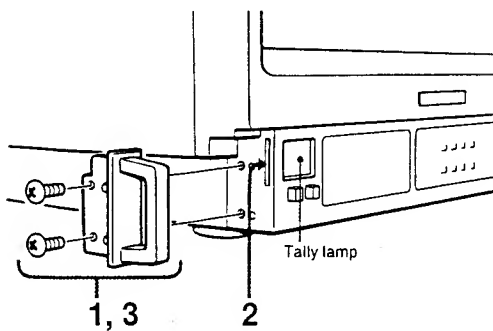
Y/C (Y/C separate) INPUT connector (4-pin DIN)



Pin No.	Signal	Description
1	Y-input	1 Vp-p, sync negative, 75 ohms
2	CHROMA sub-carrier-input	300 mVp-p, burst Delay time between Y and C: within 0 ± 100 nsec., 75 ohms
3	GND for Y-input	GND
4	GND for CHROMA-input	GND
*	Slot for internal switch	Press the switch inside this slot. The signal from Y/C-INPUT connector has priority over the one from VTR (8-pin) connector.

Design and specifications subject to change without notice.

Attaching the indication number (PVM-2044QM only)



- 1 Remove the screws and the left handle bracket.
- 2 Insert the indication number sheet.
- 3 Attach the left handle bracket with the screws.


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WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

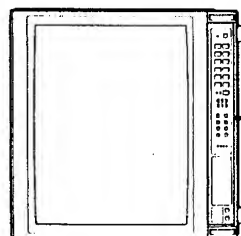
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SECTION 1 GENERAL

1-1. LOCATION AND FUNCTION PARTS AND CONTROLS

Front panel PVM-2044QM



1 EXT SYNC (external sync) button

Normally keep this button released (INT). The monitor operates on the sync signal from the displayed composite video signal.
To operate the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel, depress the button (EXT).

2 DEGAUSS button

Press this button momentarily. The screen will be demagnetized for approximately 5 seconds. Wait for 10 minutes or more before activating this button again.

3 3.58 TRAP button (NTSC-USA only)

Normally set this button in released position (OFF) to obtain line picture detail without color spill or color noise. When a microcomputer, such as APPLE II, is connected and stripes appear, depress this button (ON).

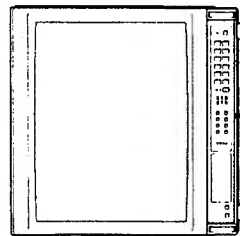
4 Color system indicators

The indicator of the color system being received lights up in red.

5 INPUT select buttons

Press to select the program to be monitored.
A: for a signal fed through the LINE A connectors.
B: for a signal fed through the LINE B connectors.
Y/C/VTR: for a signal fed through the Y/C-INPUT connectors or VTR connector.
When both the Y/C-INPUT and VTR connectors are connected to video equipment, the input signal fed through the Y/C-INPUT connector has priority over the one fed through the VTR connector.

Front panel PVM-2042QM



11 Response indicator
Flashes when the MEMORY (PVM-2044QM only), RESET, APERTURE, BRIGHT, CHROMA, PHASE, CONTRAST, or VOL button is pressed.

10 BIAS and GAIN adjustment controls

Used for white balance adjustment.
Gain and BIAS controls are provided for the R (red), G (green) and B (blue) screens.
BIAS: Adjust the white balance and brightness of the screen at the lowlight with these controls.
GAIN: Adjust the white balance and contrast of the screen at the highlight with these controls.

12 MEMORY button and RESET button

After setting the APERTURE, BRIGHT, CHROMA, and PHASE controls to the desired levels, press the MEMORY button with a pencil or a similar object so that these levels can be memorized and the response indicator lights up.

When the RESET button is pressed, the above control settings, and not the factory set levels, will be restored. To change the memorized levels, repeat the above operations.

To release the memorized levels and restore the factory set levels, while pressing the MEMORY button, press the RESET button.

13 APERTURE buttons

Press + for more sharpness or - for less.

14 BRIGHT (brightness) buttons

Press + for more brightness or - for less.

6 BLUE ONLY button

Depress to turn off the red and green signals. A blue signal is displayed as an apparent monochrome picture on the screen. This facilitates "chroma" and "phase" control adjustments and observation of VTR noise.

* "Phase" control adjustment is effective only for the NTSC signals.

7 UNDER SCAN button

Depress for underscanning. The display size is reduced by approximately 3% so that four corners of the raster are visible.

8 H-V DELAY button

Depress to observe the horizontal and vertical sync signals at the same time.
The horizontal sync signal is displayed in the left quarter of the screen; the vertical signal is displayed near the center of the screen.

19 CHROMA buttons

Press + for more color intensity or – for less.

18 PHASE buttons

This button is effective only for the NTSC3.58 and NTSC4.43 color system.
Press GRN (green) to make the skin tones greenish or PUR (purple) to make them purplish.

Note

The APERTURE, CHROMA, PHASE control settings have no effect on the pictures of analog RGB or digital RGB signals.

17 CONTRAST buttons

Press + to make the contrast, color intensity and brightness stronger or – to make them weaker.

16 VOL (volume) buttons

Press + for more volume or – for less.

15 POWER switch and indicator

Depress to turn the monitor on.
The indicator will light up in green.

Press the switch again to turn the monitor off.

20 INPUT select buttons

Press to select the program to be monitored.

A: for a signal fed through the LINE A connectors.
B: for a signal fed through the LINE B connectors.
Y/CVTR: for a signal fed through the Y/C-INPUT connectors or VTR connector.

When both the Y/C-INPUT and VTR connectors are connected to video equipment, the input signal fed through the Y/C-INPUT connector has priority over the one fed through the VTR connector.

RGB: for a signal fed through the ANALOG RGB connectors or DIGITAL RGB connector.

21 ANALOG/DIGITAL (EXT SYNC) button

This button functions as ANALOG/DIGITAL selector and EXT SYNC selector.

As ANALOG/DIGITAL selector

Depress to monitor a signal fed through the ANALOG RGB connectors.

Release to monitor a signal fed through the DIGITAL RGB connector.

For EXT SYNC selector

Depress to operate the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel (EXT).

Release to operate the monitor on the sync signal from the displayed composite video signal (INT).

22 RESET button

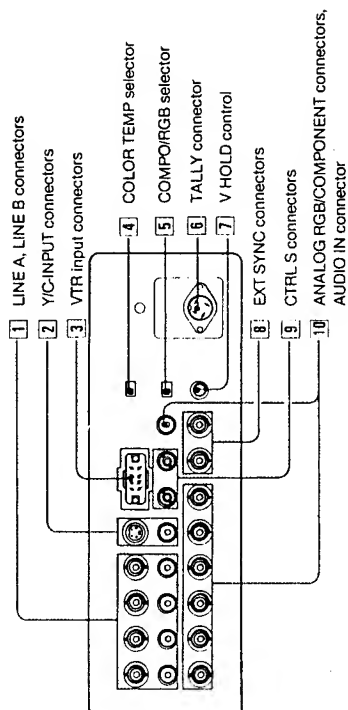
Press to return the PHASE, CHROMA, BRIGHT and APERTURE control settings to the factory set levels.

Picture Adjustment Buttons

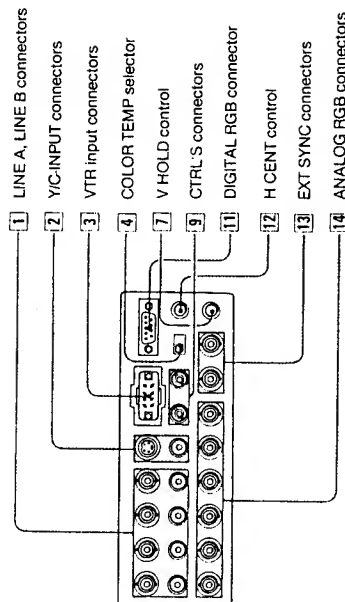
The picture adjustment buttons of each monitor operate in the following input mode (indicated as "Yes").

Model	Input mode	APERTURE	BRIGHT	CHROMA	PHASE	CONTRAST	VOL
PVM-2044QM	• LINE A, LINE B						
	• Y/C	Yes	Yes	Yes	Yes (NTSC only)	Yes	Yes
	• VTR						
PVM-2042QM	Analog RGB	No	Yes	No	No	Yes	Yes
	Component	Yes	Yes	Yes	No	Yes	Yes
	• LINE A, LINE B						
PVM-2042QM	• Y/C	Yes	Yes	Yes	Yes (NTSC only)	Yes	Yes
	• VTR						
	• Digital RGB						
PVM-2042QM	• Analog RGB	No	Yes	No	No	Yes	No
	• Analog RGB						

Rear panel PVM-2044QM



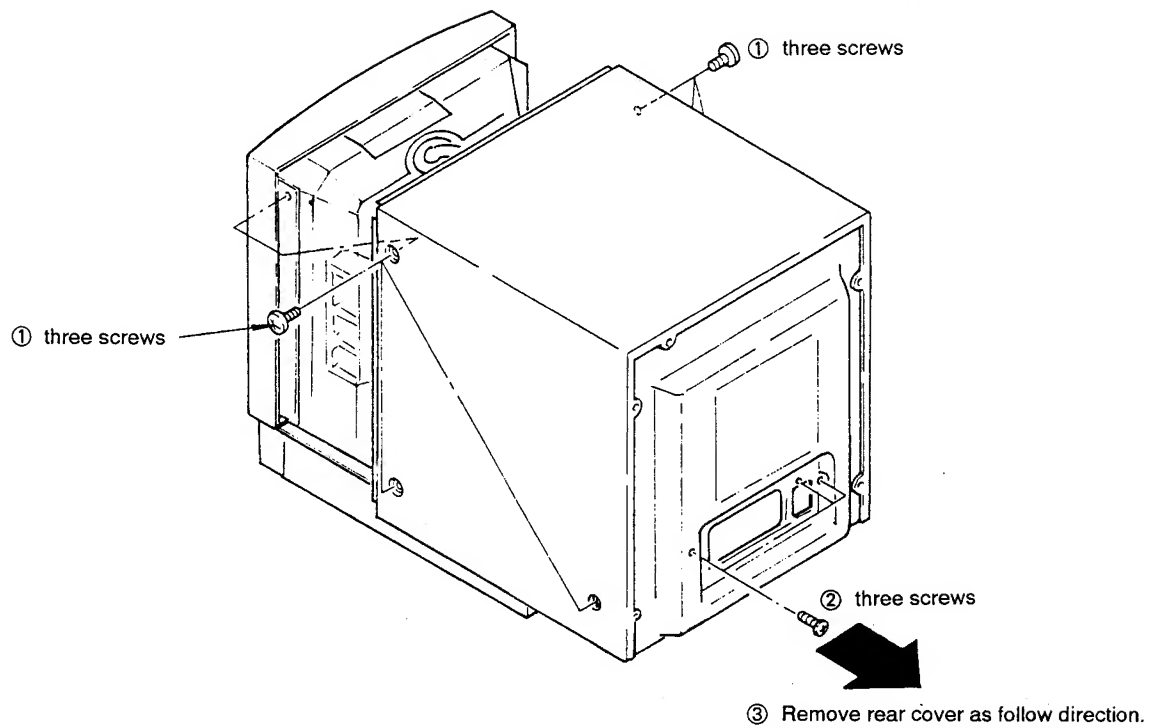
Rear panel PVM-2042QM



- 1 LINE A, LINE B connectors**
Two groups (A and B) of line input connectors for the composite video and audio signals and their loop-through output connectors.
To monitor the input signal fed through these connectors, press the A or B input select button on the front panel.
- VIDEO IN (BNC type):** Connect to the video output of a video equipment, such as a VTR or a color video camera. For a loop-through connection, connect to the video output of another monitor.
- VIDEO OUT (BNC type):** Loop-through output of the VIDEO IN connector. Connect to the video input for a VTR or another monitor.
When the cable is connected to this connector, the 75-ohms termination of the input is automatically released, and the signal input to the VIDEO IN connector is output from this connector.
- AUDIO IN (phono jack):** Connect to the audio output of a VTR or to a microphone via a suitable microphone amplifier. For a loop-through connection, connect to the audio output of another monitor.
- AUDIO OUT (phono jack):** Loop-through output of the AUDIO IN jack. Connect to the audio input of a VTR or another monitor.
- 2 Y/C-INPUT connectors**
VIDEO (4-pin DIN): Connect to the Y/C separate output of a video camera or a VTR.
- AUDIO (phono jack):** Connect to the audio output of a video camera or a VTR.
To monitor the input signal fed through these connectors, press the Y/CVTR button on the front panel.
- 3 VTR input connectors (8-pin)**
Line input for the video and audio signals. When connected to the 8-pin TV connector of a VTR, the video and audio playback signal from the VTR can be input through a single cable.
To monitor the input signal fed through this connector, press the Y/CVTR button on the front panel, with the Y/C-INPUT connectors connected to no outputs.
When both VTR and Y/C-INPUT connectors are connected to video equipment, the input signal fed through the Y/C-INPUT connectors has priority over the one fed through the VTR connectors.
- 4 COLOR TEMP (temperature) selector**
Select the color temperature position, 3300K or 6500K.
- 5 COMPO (component)/RGB selector**
Set to COMPO to monitor component signal fed through the R/Y-Y, G/Y, B/B-Y connectors.
Set to RGB to monitor analog RGB signal fed through the R/R-Y, G/Y, B/B-Y connectors.
- 6 TALLY connector (4-pin)**
Connect the tally signal of a video camera.
- 7 V HOLD (vertical hold) control**
Turn to stabilize the picture if it rolls vertically.
- 8 EXT SYNC (external sync) connectors (BNC type)**
IN: Connect to the output of a sync generator.
To use the sync signal fed through this connector, depress the EXT SYNC button.
OUT: Loop-through output of the SYNC IN connector.
Connect to the SYNC input of a video camera.
When the cable is connected to this connector, the 75-ohms termination of the input is released, and the signal input to the IN connector is output from this connector.
- 9 CTRL S (control S) connectors (mini-jack)**
For remote control of the APERTURE, BRIGHT, CHROMA, PHASE, CONTRAST and VOL control buttons.
IN: Connect to the "control S" output of other equipment.
OUT: Connect to the CTRL S IN connector of another monitor by using a connecting cord (mini-plug → mini-plug).
- 10 ANALOG RGB/COMPONENT connectors (BNC type)**
R/R-Y IN, G/Y IN, B/B-Y IN:
To monitor the analog RGB signal, connect to the analog RGB signal outputs of a video camera having no sync signal.
Set the COMPO/RGB selector on the rear panel to RGB and press the ANALOG RGB/COMPONENT button on the front panel. When the EXT SYNC button is released, the monitor operates on the sync signal from the G channel.
To monitor the component signal, connect to the R/Y/Y-B-Y component signal outputs of a BETACAM video camera. Set the COMPO/RGB selector on the rear panel to COMPO and press the ANALOG RGB/COMPONENT button on the front panel. When the EXT SYNC button is released, the monitor operates on the sync signal from the Y channel.
- R/R-Y OUT, G/Y OUT, B/B-Y OUT:**
Loop-through outputs of the R/R-Y IN, G/Y IN, B/B-Y IN connectors.
- For RGB signal,** connect to the analog RGB signal inputs of a video camera.
For component signal, connect to the R/Y/Y-B-Y component signal inputs of a BETACAM video camera.
When the cables are connected to these connectors, the 75-ohms termination of the input is automatically released, and the signal inputs to the R/R-Y IN, G/Y IN, B/B-Y IN connectors are output from these connectors.
- AUDIO IN (phono jack):** Connect to the audio output of video equipment when the analog RGB or component signal is input.
- 11 DIGITAL RGB connector (9-pin)**
Connect with a microcomputer having a digital (TTL level) RGB video output.
To monitor the input signal fed through this connector, press the RGB button and keep the ANALOG/DIGITAL (EXT SYNC) button released.
- Note**
For connection, be sure to use an optional SMF-520 connecting cable.
- 12 H CENT (horizontal centering) control**
When a digital RGB signal is monitored, turn to center the picture if it is decentered.
- 13 EXT SYNC (external sync) connectors (BNC type)**
IN: Connect to the output of a sync generator.
To monitor the sync signal fed through this connector, depress the ANALOG/DIGITAL (EXT SYNC) button.
OUT: Loop-through output of the SYNC IN connector.
Connect to the SYNC input of a video camera.
When the cable is connected to this connector, the 75-ohms termination of the input is released, and the signal input to the IN connector is output from this connector.
- 14 ANALOG RGB connectors (BNC type)**
RGB IN: Connect to the analog RGB outputs of a video camera.
To monitor a signal fed through these connectors, press the RGB button and depress the ANALOG/DIGITAL (EXT SYNC) button.
RGB OUT: Loop-through outputs of the RGB IN connectors. Connect to the analog RGB inputs of a video camera.
When the cable is connected to these connectors, the 75-ohms termination of the input is released, and the signal input to the RGB IN connectors is output from these connectors.

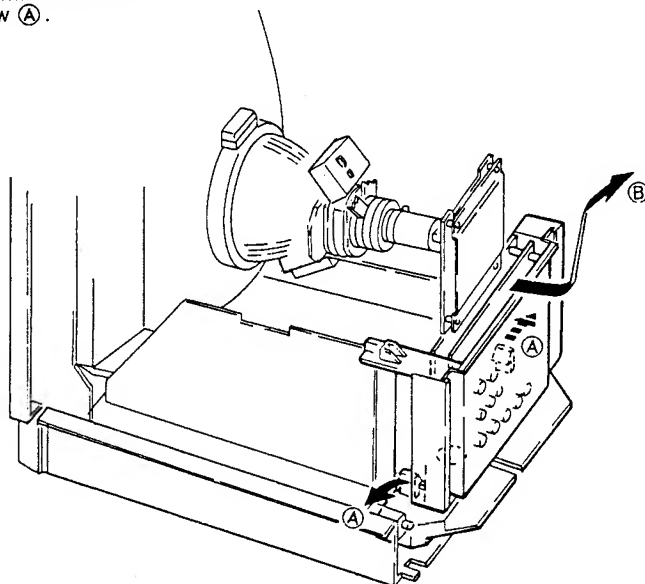
SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

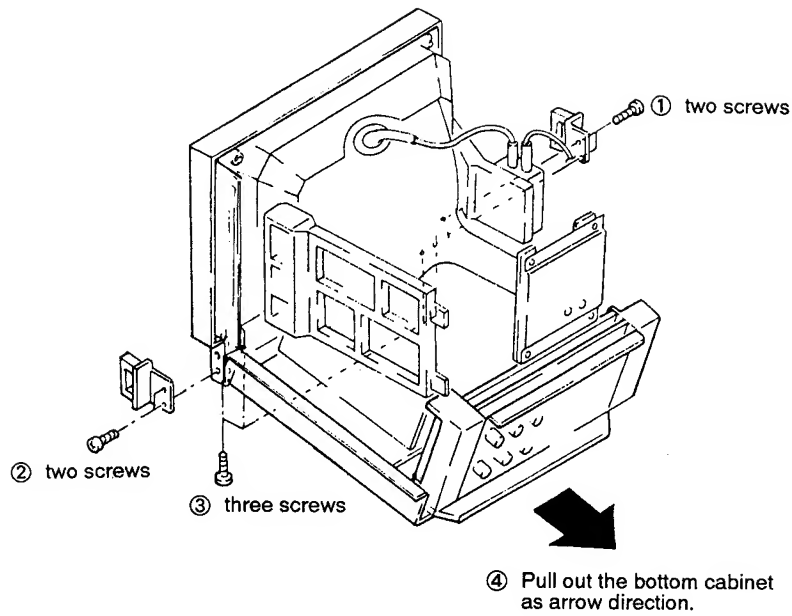


2-2. TERMINAL BRACKET REMOVAL

- ① Remove the terminal bracket as arrow ② while extend two claws as arrow ①.

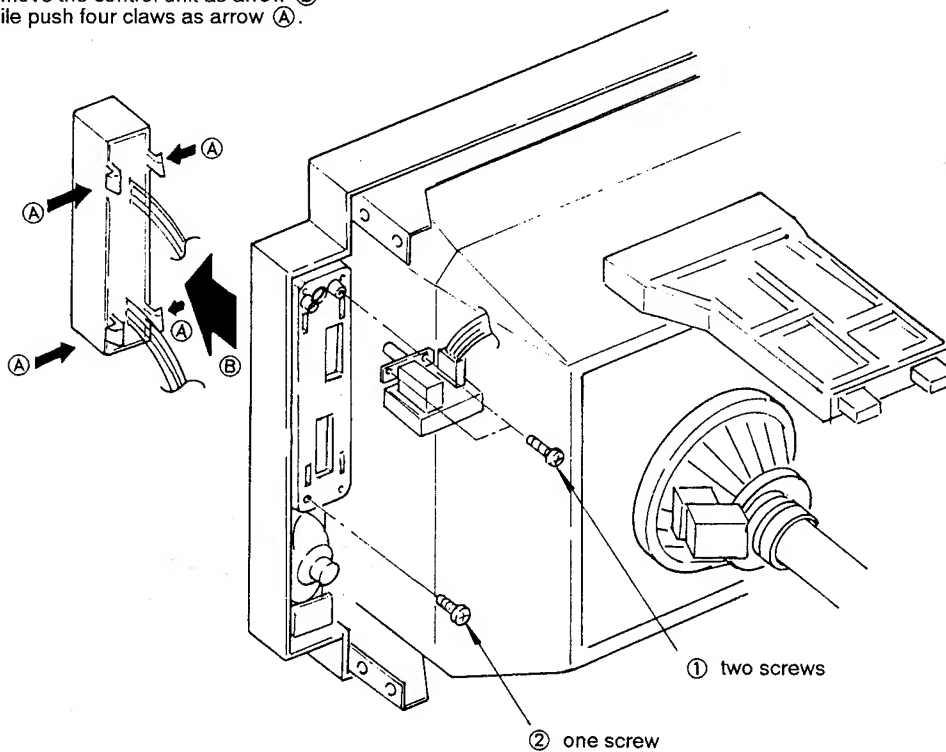


2-3. CABINET ASSY, BOTTOM REMOVAL



2-4. CONTROL UNIT REMOVAL

- ③ Remove the control unit as arrow ⑥ while push four claws as arrow ④.

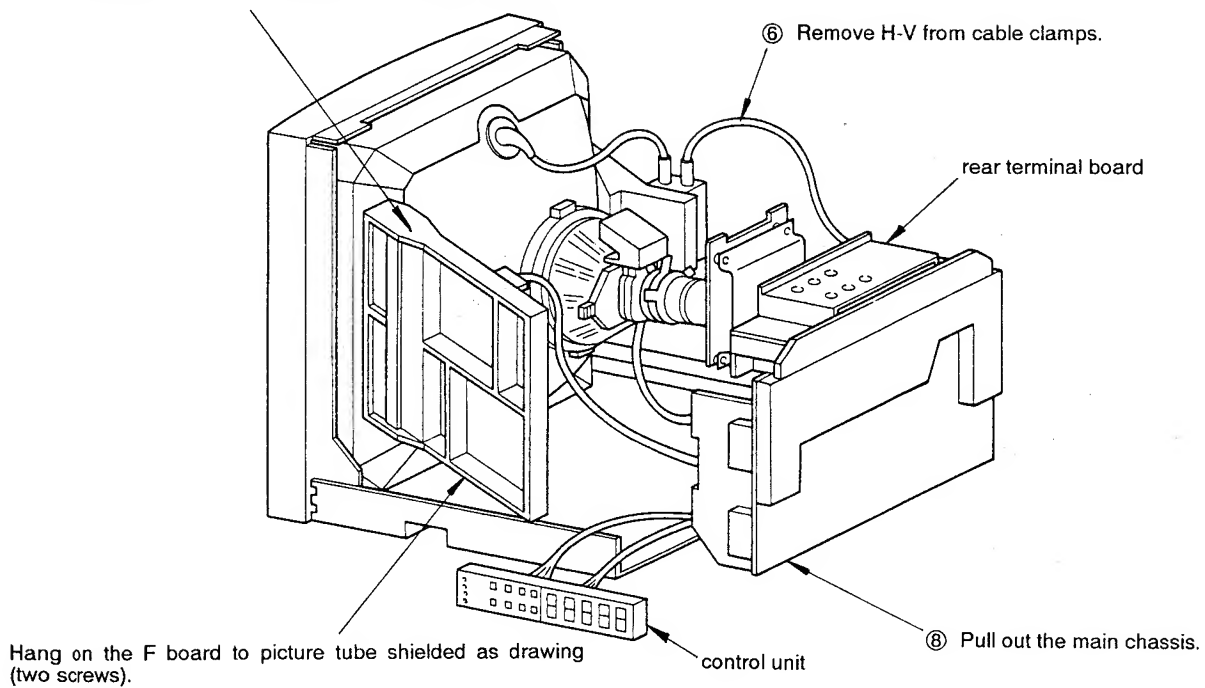


2-5. SERVICE POSITION

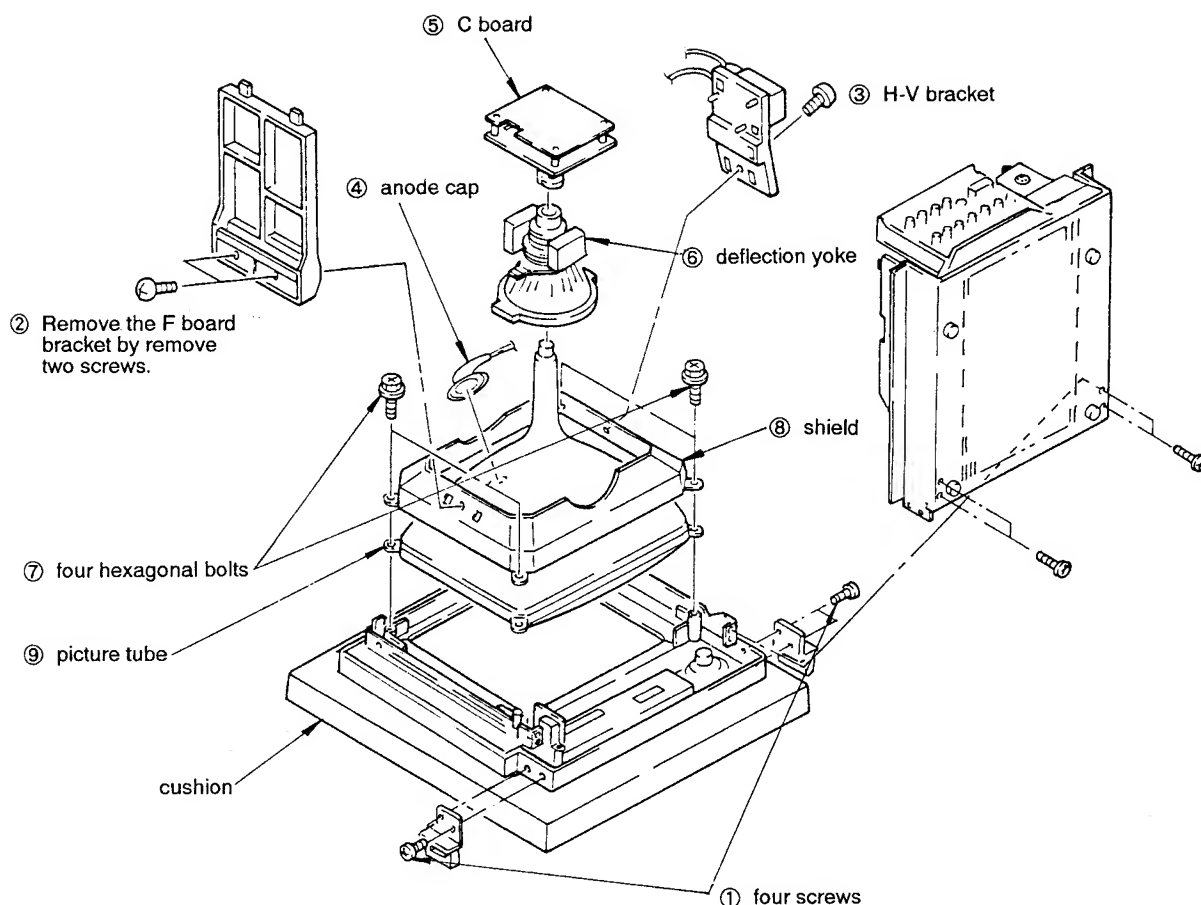
Remove the connectors and chassis in order as follows.

- ① A-4, A-5 (from control panel)
- ② A-2 (from speaker)
- ③ C536 (A board) next earth lead wire (from picture tube)
- ④ T-3 (from H board)
- ⑤ P-4 (from H board)

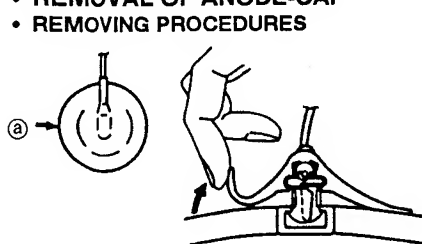
- ⑦ Remove F-5 to A-1 connector from F board bracket.



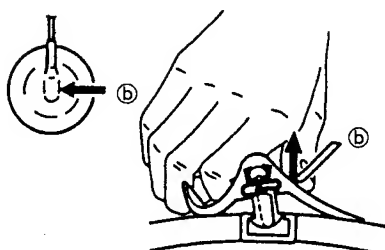
2-6. PICTURE TUBE REMOVAL



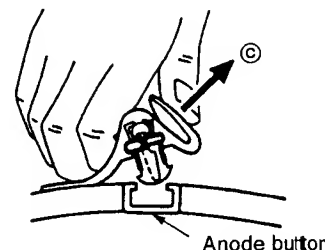
• REMOVAL OF ANODE-CAP • REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ①.



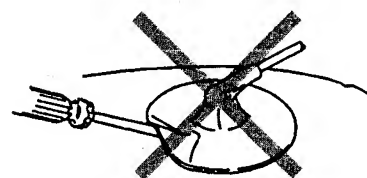
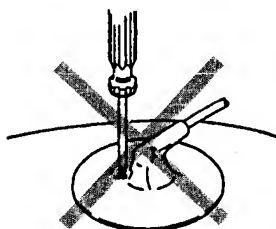
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ③.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
A metal fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

CONTRAST control 80%

BRIGHTNESS control 50%

Perform the adjustments in order as follows:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White Balance

Note: Test Equipment Required.

1. Color Bar/Pattern Generator
2. Degausser
3. Color Analyzer
4. Luminance Level Meter
5. Oscilloscope

Preparation

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

3-1. BEAM LANDING

1. Receive an entirely white signal with the pattern generator.
CONTRAST MAX.
BRIGHTNESS set easy to observe
2. Adjust the focus and the horizontal convergence roughly.
3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig. 3-1.
4. Switch over the pattern generator to green.
5. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and blue and red are at the sides, evenly. (Fig. 3-2)
6. Move the deflection yoke forward, and adjust so that the entire screen becomes green. Repeat 5 to 7 as to red and blue.
7. When landing at the corners is not right, correct by using the magnet. (Fig. 3-3)
8. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.

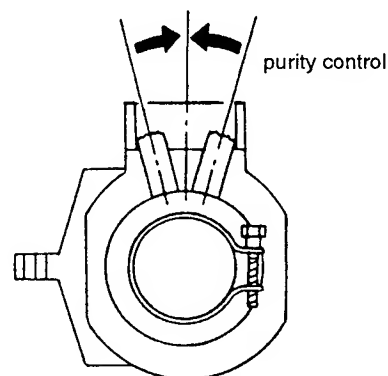


Fig. 3-1

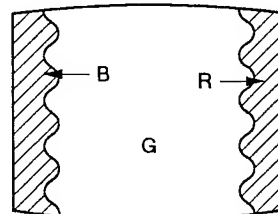


Fig. 3-2

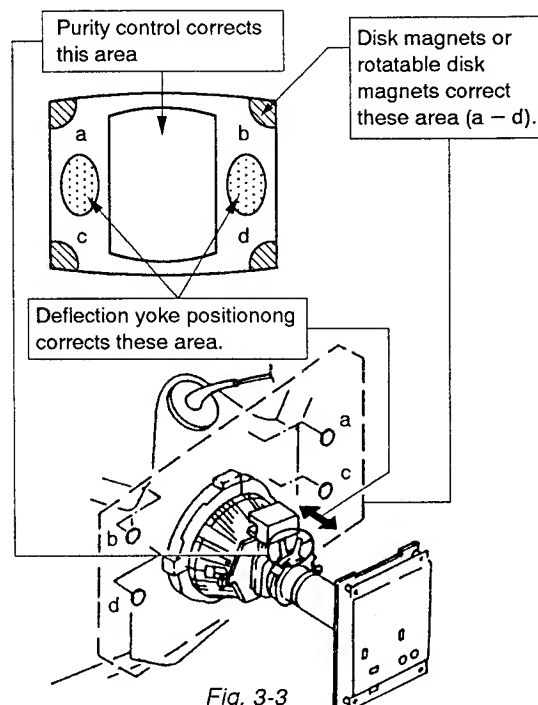
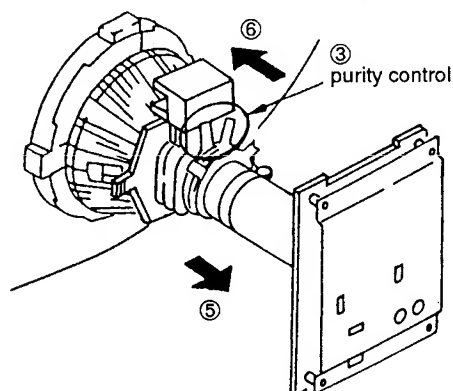


Fig. 3-3

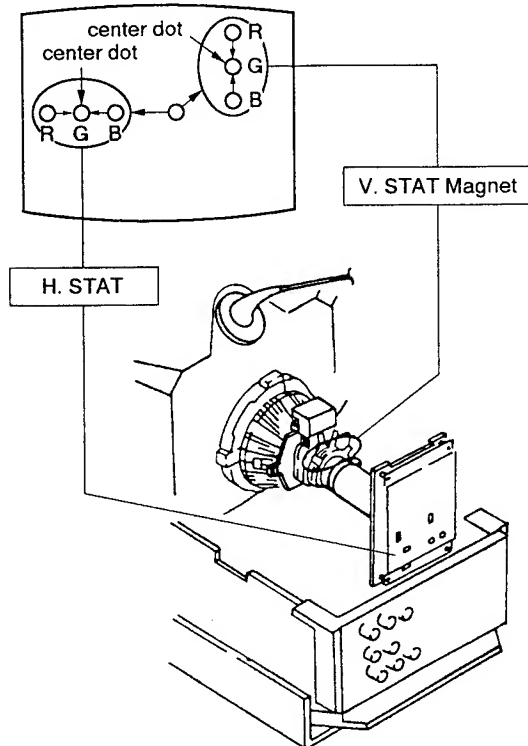
3-2. CONVERGENCE

(1) Horizontal and Vertical Static Convergence Adjustment on the Center of Screen.

- Before starting, perform V. SIZE, V. CENT, H. SIZE, H. CENT and Screen Distortion adjustment rightly.

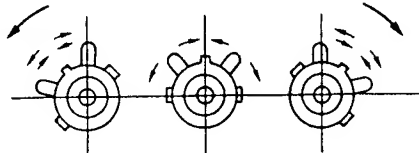
(Static Convergence Adjustment)

- Receive a dot signal and Set CONTRAST to normal.
- Adjust H. STAT VR to coincide red, green and blue dots on the center of screen. (Horizontal movement)
- Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen. (Vertical movement)

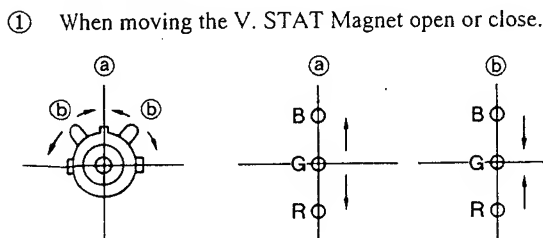


- ※ If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform adjustment using V. STAT at the same time while tracking.

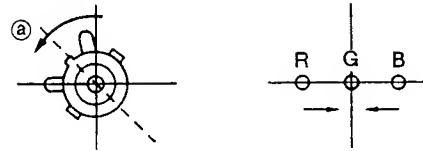
(Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.)



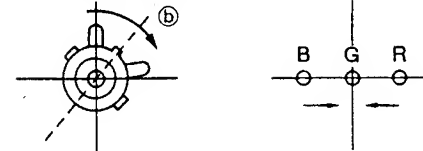
- When the V. STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.



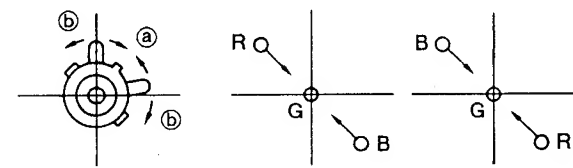
- When moving the V. STAT magnet counterclockwise.



- When moving the V. STAT magnet clockwise.



- When tilt the V. STAT magnet and open or close.

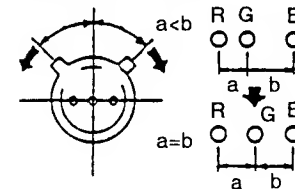


- ※ If the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.

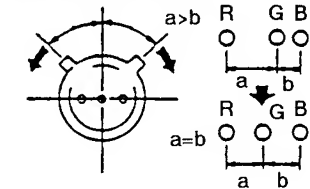
• HMC and VMC correction for BMC (6-Poles) magnet.

- HMC (Horizontal Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

HMC Correction (A)

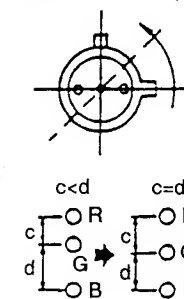


HMC Correction (B)

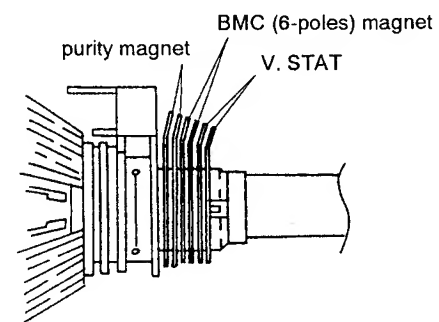
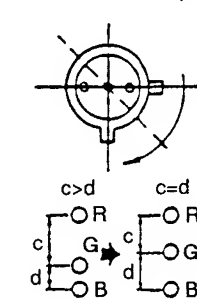


- VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

VMC Correction (A)



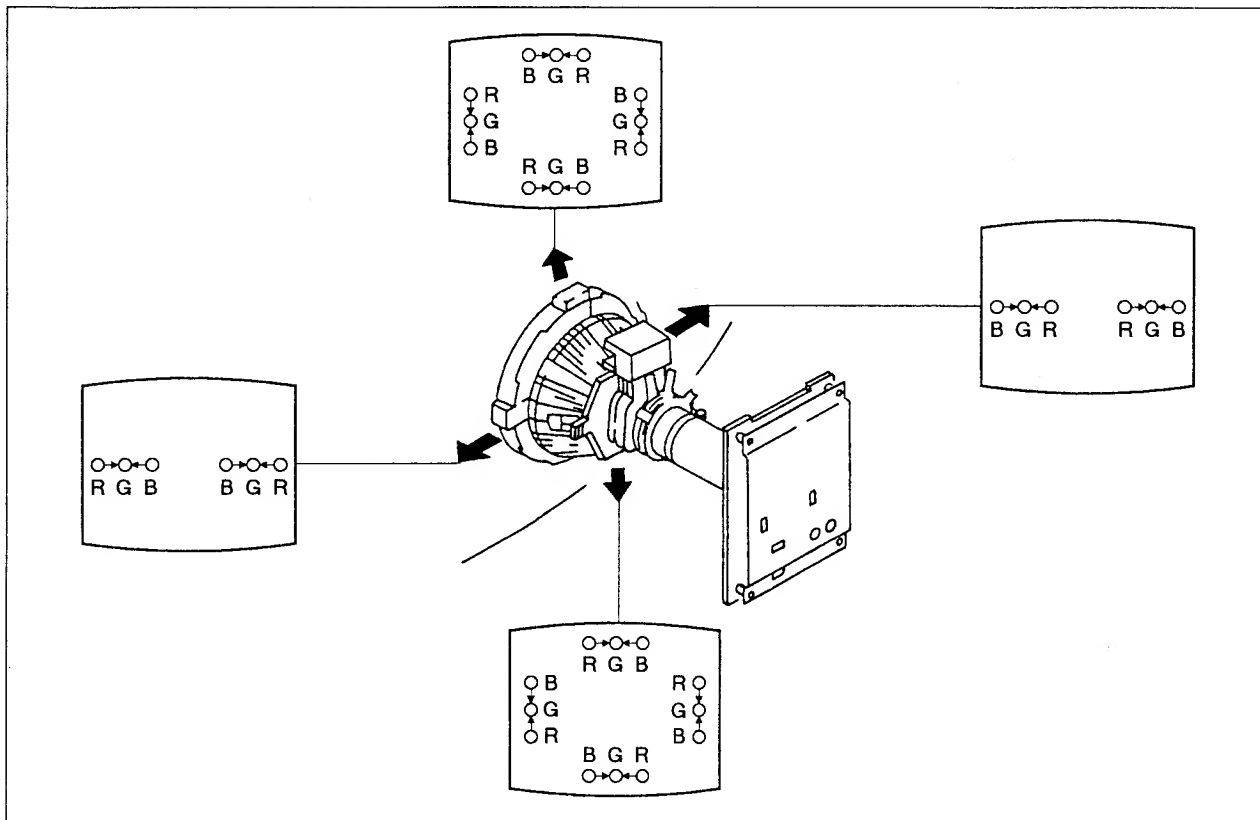
VMC Correction (B)



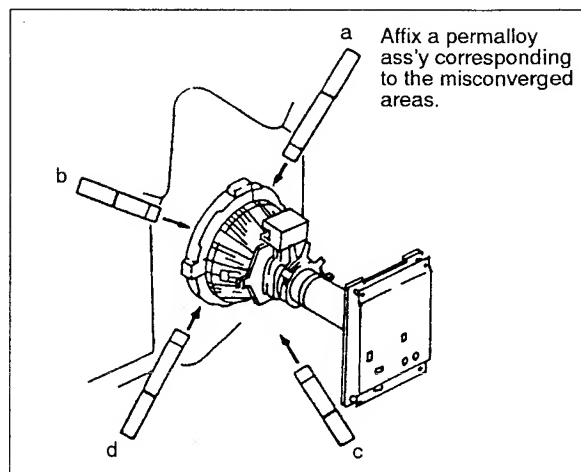
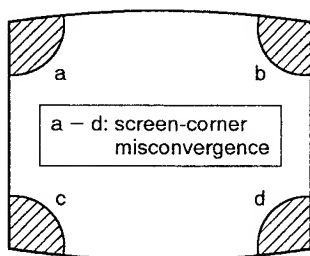
(2) Horizontal and Vertical Dynamic Convergence Adjustment the environs of the Screen

(Dynamic Convergence Adjustment)

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



(3) Screen-corner Convergence



3-3. FOCUS

1. Receive the broadcast.
2. CONTRAST Normal
3. Adjust RV707 so that the focus on the center of screen becomes to the best.

3-4. WHITE BALANCE

- **Screen voltage Adjustment**

1. Receive dot signal patterns.
2. Set both BRIGHT and CHROMA to 50%.
3. Use an external DC power supply to apply a voltage of 180 ± 1 VDC to the respective cathodes of R, G, and B.
4. While observing the screen, adjust RV709 (G2VR) to the point just prior to where the retrace lines disappear.

- **White Balance Adjustment**

1. Input signals generated by a monoscope.
2. Set the COLOR TEMP switch to 6500° K.
3. Set BRIGHT, CONTRAST, and CHROMA as follows:
BRIGHT: 50%
CONTRAST: 0%
CHROMA: 50%
4. Adjust RV1710 (SUB-BRIGHT), while changing the gray scale of the monoscope signals from 0 IRE to CUT OFF and from 10 IRE to the point where the luminance is barely visible.
5. Input all-white signals.
6. Set BRIGHT, CONTRAST, and CHROMA as follows:
BRIGHT: 50%
CONTRAST: 70%
CHROMA: 50%
7. Secre the phtoreceptor of the luuminance meter to the surface of the receiving tube.
8. Adjust the LUMINANCE of the Pattern Generator to 8 NIT.
9. With the COLOR TEMP set to 6500° K, adjust RV1705 (R BKG) and RV1704 (B BKG) on the V board to obtain the white balance at the cut off point.
10. Adjust the LUMINANCE of the Pattern Generator so that the former setting of 100 IRE is restored.
11. With the COLOR TEMP set to 6500° K, adjust RV1701 (R DRV) and RV1700 (B DRV) on the V bored to obtain the white balance inhighlighted mode.
12. Repeat Steps 7 through 11 until optimum white balance is achieved.
13. Set the COLOR TEMP switch to 9300° K.
14. Set BRIGHT, CONTRAST, and CHROMA as follows:
BRIGHT: 50%
CONTRAST: 70%
CHROMA: 50%
15. Secre the phtoreceptor of the luminance metre to the surface of the receiving tube.
16. Adjust the LUMINANCE of the Pattern Generator to 8 NIT.
17. With the COLOR TEMP set to 9300° K, adjust RV1707 (R BKG) and RV1706 (B BKG) on the V board to obtain the white balance at the cut off point.

18. Adjust the LUMINANCE of the Pattern Generator so that the former setting of 100 IRE is restored.
19. With the COLOR TEMP set to 9300°K, adjust RV1703 (R DRV) and RV1702 (B DRV) on the V board to obtain the white balance in highlighted mode.
20. Repeat Steps 15 through 19 until optimum white balance is achieved, and then perform the SUB-BRIGHT adjustment described in Step 4.
21. Check that the difference in luminate at 6500°K and 9300°K is no greater than 10 IRE.

- **White Balance Adjustment for Analog RGB**

1. Input all-white signals from the ANALOG RGB input terminal.
2. Secure the photoreceptor of the luminance meter to the surface of the receiving tube.
3. Adjust the LUMINANCE of the Pattern Generator to 8 NIT.
4. Adjust RV1709 (R BKG) and RV1708 (G BKG) on the V board to obtain the white balance at the cut off point.
5. Adjust the LUMINANCE of the Pattern Generator so that the former setting of 100 IRE is restored.
6. Check that the white balance is satisfactory in highlighted mode.

MEMO

[illegible]

SECTION 4

SAFETY RELATED ADJUSTMENTS

B+ MAX CONFIRMATION (☒ R690)

The following adjustments should always be performed when replacing the following components (marked with ☒ on the schematic diagram).

☒ on F board : IC601, IC602, IC651, D654, D655, C658, C659, R634, R652, R653, R654, R655, R656, R657, R665, R671, R690, RV601

1. Supply 130 ± 5 V AC to with variable auto-transformer.
2. Receive a dot signal.
3. • CONTRASTMinimum
• BRIGHTNESSMinimum
4. Connect a digital multimeter to TP91.
5. Confirm the voltage of TP91 is less than 118.0V DC when rotate RV601 on F board fully clockwise.
6. If step 5 is not satisfied, readjustment should be performed by altering the resistance value of R690 (☒).

CONFIRMATION WHEN REPLACING H.V.R (High Voltage Resistor)

The following adjustment should be confirm the output voltage when replacing HVR.

1. Receive an entire white signal.
2. • CONTRASTMaximum
• BRIGHTNESSMaximum
3. Connect a digital multimeter to the A-20 connector side lead of R804.
4. Confirm the voltage is 16.0 ± 3.0 V DC.

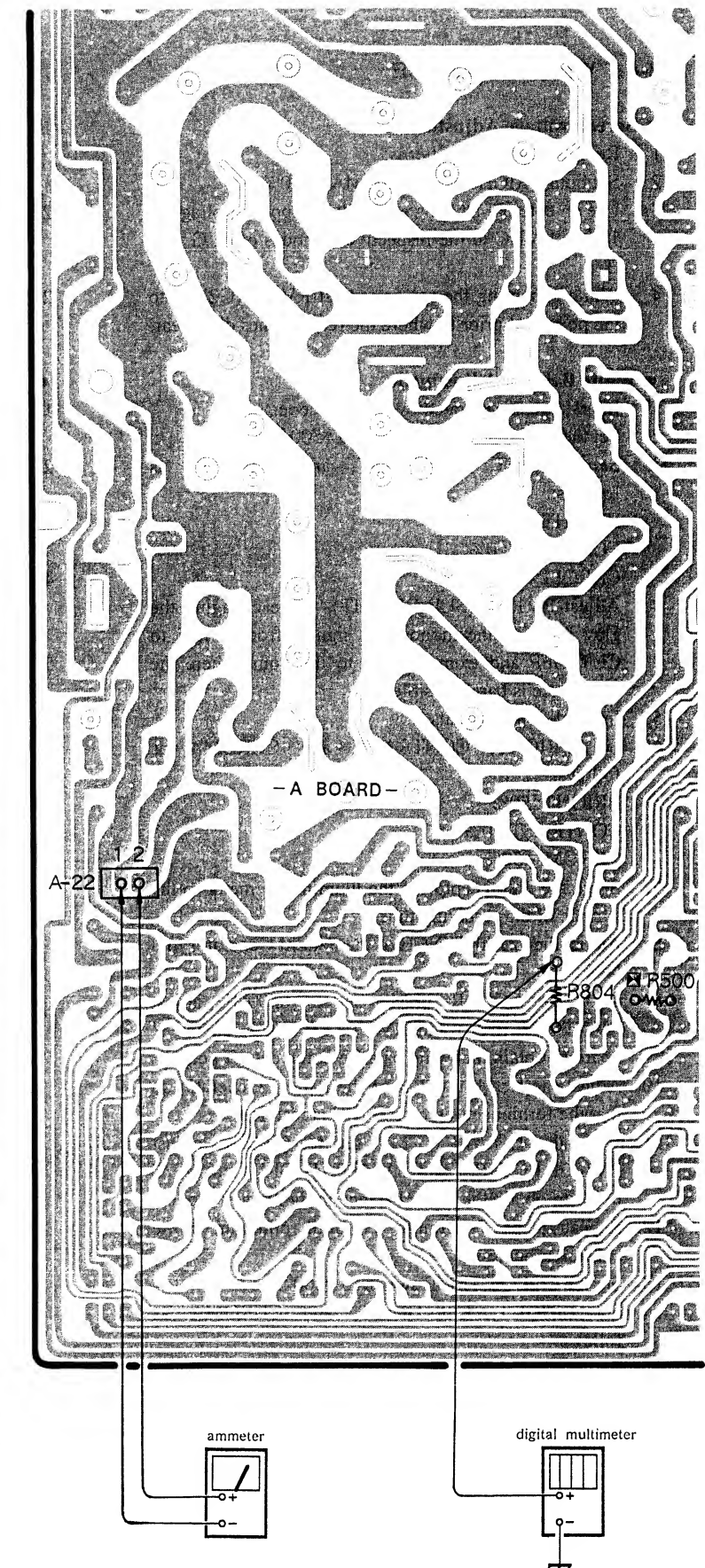
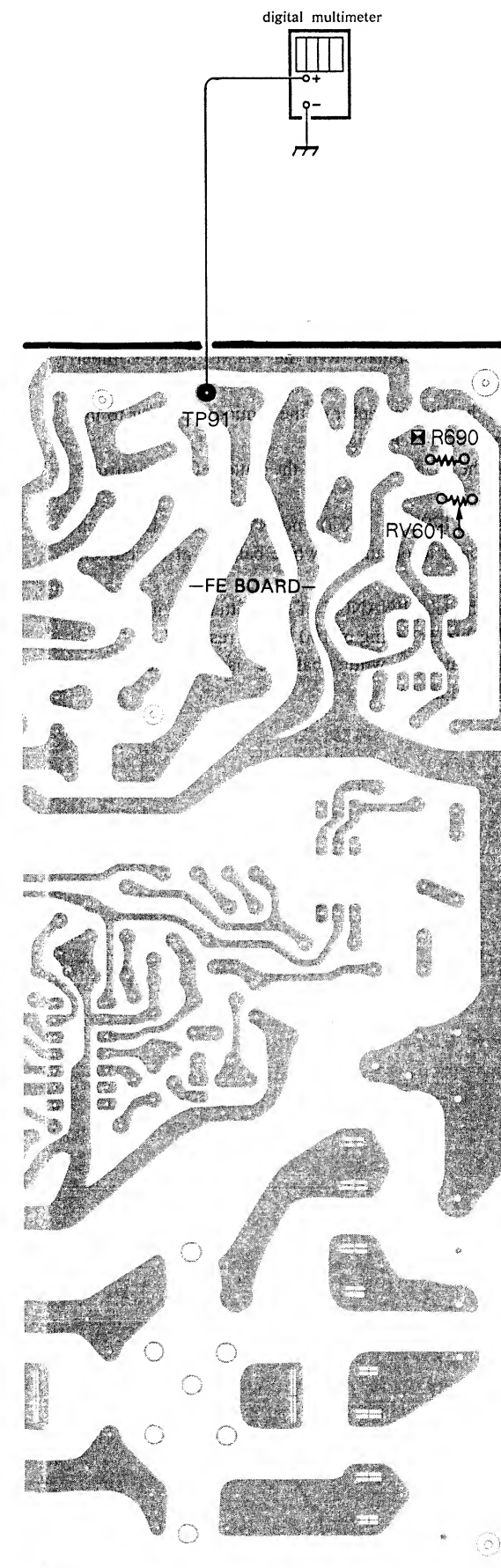
☒ R500, CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with ☒ on the schematic diagram).

☒ on A board : IC501, Q503, Q504, Q505, Q506, D509, D510, C505, C520, C524, C525, C526, C527, C528, C529, C530, C531, R500, R506, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R528, R804, HVR

☒ on P board : NL901, C905

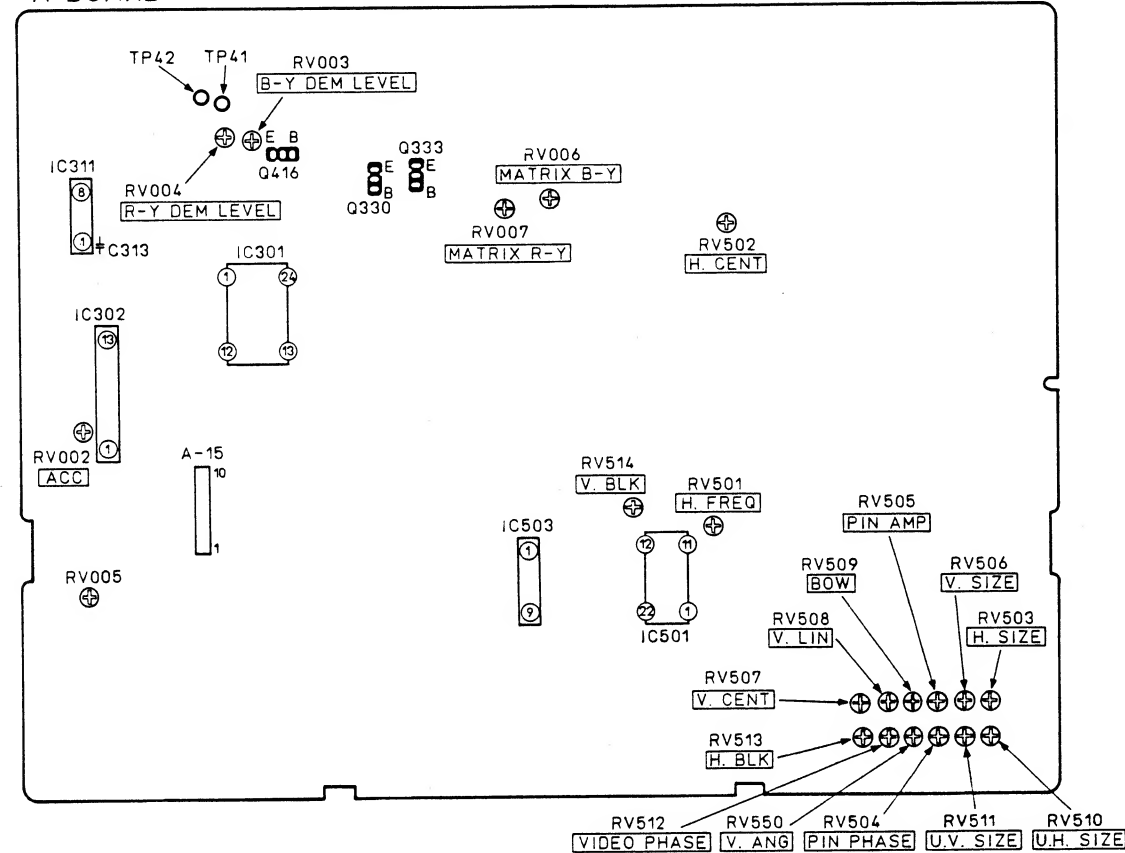
1. Receive an entire white signal.
2. • CONTRASTMaximum
• BRIGHTNESSMaximum
3. Connect a digital multimeter to the A-20 connector side lead of R804.
4. Confirm the voltage is 16.0 ± 3.0 V DC.
5. Receive a dot signal.
6. Disconnect A-22 connector (ABL JIG) on A board and connect an ammeter.
7. Adjust BRIGHTNESS and CONTRAST so that the current to $180 \pm 30 \mu$ A.
8. Apply an external DC voltage gradually to the A-20 connector, side lead of R804, and when the voltage becomes 19.2 ± 0.1 V DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
9. Receive an entire white signal.
10. Adjust with BRIGHTNESS and CONTRAST volumes so that the current to $1,020 \pm 40 \mu$ A.
11. Apply DC voltage to the A-20 connector side lead of R804, and when the voltage becomes 18.3 ± 0.1 V DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
12. When step 4 to 11 is not satisfied, readjustment should be performed by altering the resistance value of R500 (☒).



SECTION 5 CIRCUIT ADJUSTMENTS

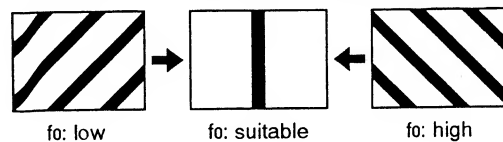
5-1. A BOARD ADJUSTMENTS

A BOARD—COMPONENT SIDE—



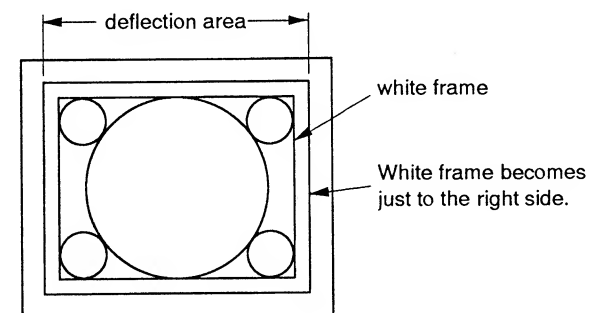
HORIZONTAL OSCILLATION FREQUENCY ADJUSTMENT (RV501)

1. Receive a monoscope signal.
2. Connect pin ① of IC501 to ground with 100 μ F/16 V electrolytic capacitor.
3. Adjust RV501 so that the screen streaming to stops.

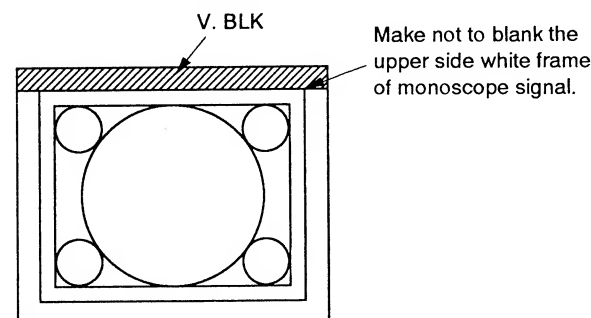


U/H. SIZE, VIDEO PHASE, H-V BLK ADJUSTMENTS (RV510, RV512, RV513, RV514)

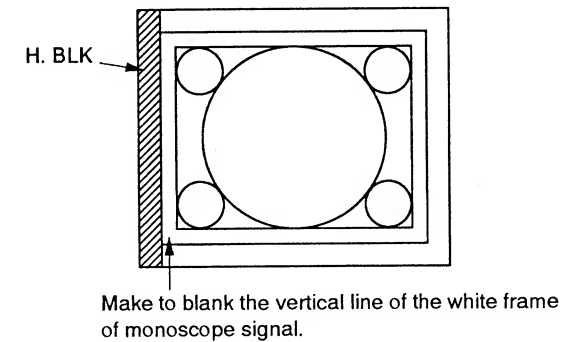
1. Receive a monoscope signal.
2. Set U/S (Under Scan) switch to Under mode.
3. • CONTRAST Minimum
• BRIGHTNESS Maximum
4. Adjust RV510 (U. H. SIZE) so that the white frame of monoscope signal becomes visible.
5. Adjust RV512 (Video Phase) so that the white frame of monoscope signal becomes to the right side just on the screen.



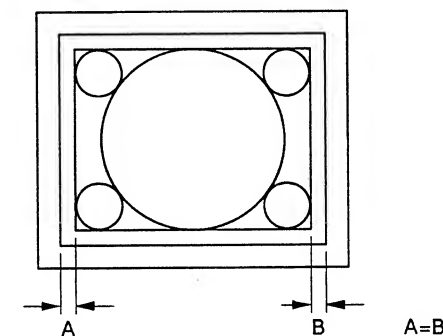
6. V. BLK Adjustment (RV514)
(1) Adjust RV514 (V. BLK) so that the upper side white frame of monoscope signal is not blanked.



7. H. BLK Adjustment (RV513)
(1) Adjust with RV513 (H. BLK) so that the vertical line of the white frame of monoscope signal is blanked as following figure.

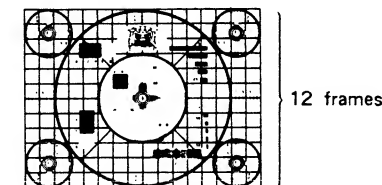


8. Screen Phase Adjustment (RV512)
(1) Adjust RV512 (Video Phase) so as to equalize the width of the white frame of monoscope signal on both sides of screen right and left.

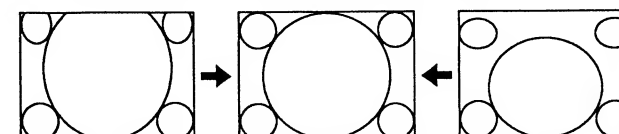


VERTICAL DEFLECTION PART ADJUSTMENTS (RV506, RV507, RV508, RV511)

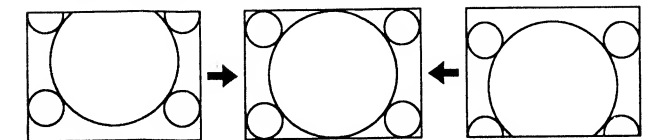
1. Receive a monoscope signal.
2. • CONTRAST 70%
• BRIGHTNESS 50%
3. Adjust RV506 (V. SIZE) so that the vertical size of monoscope signal becomes 12 frames.



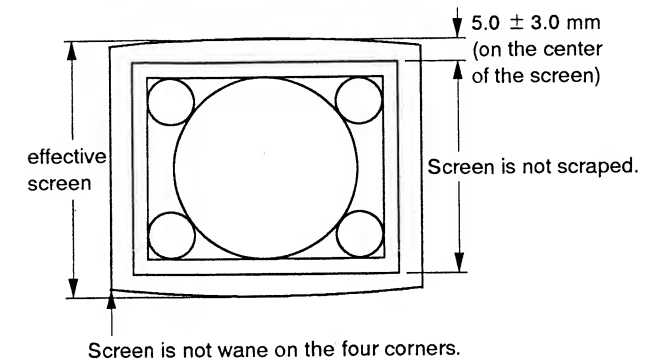
4. Adjust RV508 (V. LIN) the vertical linearity.



5. Adjust RV507 (V. CENT) the vertical position.

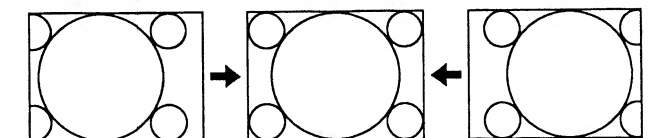


6. Adjust RV506 (V. SIZE) so that the vertical size of monoscope signal becomes 11.75 ± 0.2 frames.
7. Set U/S (Under Scan) switch to Under mode.
8. Adjust with RV511 (U.V. SIZE) as follows.

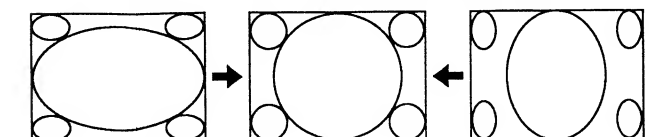


HORIZONTAL DEFLECTION PART ADJUSTMENTS (RV502, RV503, RV504, RV505, RV509, RV510, RV550)

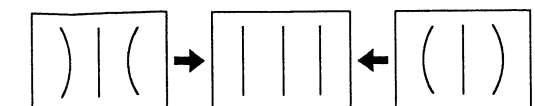
1. Receive a monoscope signal.
2. • CONTRAST 70%
• BRIGHTNESS 50%
3. H. CENT Adjustment (RV502)
(1) Adjust RV502 (H. CENT) the horizontal position.



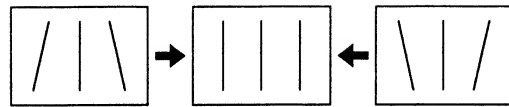
4. H. SIZE Adjustment (RV503)
(1) Adjust RV503 (H. SIZE) the horizontal size.



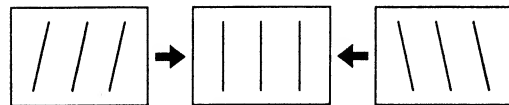
5. PIN AMP, PIN PHASE, V. ANG, BOW Adjustments (RV505, RV504, RV509, RV550)
• PIN AMP (RV505)



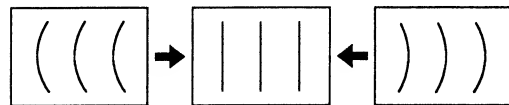
• PIN PHASE (RV504)



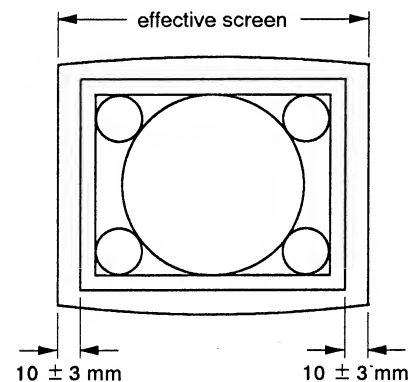
• V. ANG (RV550)



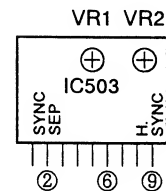
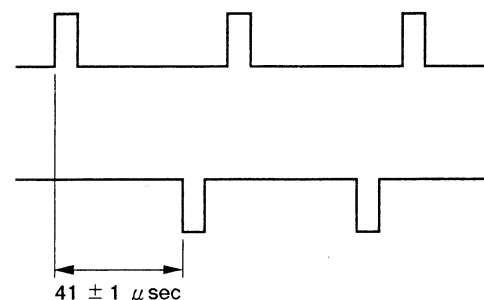
• BOW (RV509)



- Adjust RV503 (H. SIZE) so that the horizontal size becomes 15.75 ± 0.2 frames.
- Set U/S (Under Scan) switch to Under mode.
- Adjust RV510 (U.H. SIZE) the Under H. SIZE as follows.

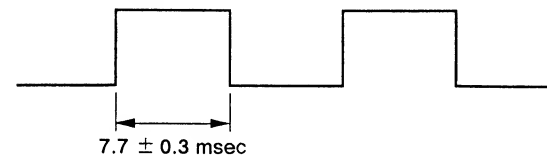
**H-V DELAY ADJUSTMENT (VR1, VR2)**

- Receive a monoscope signal.
- CONTRAST 70%
• BRIGHTNESS 50%
- Set H-V DELAY switch to DELAY mode.
- H. DELAY Adjustment (VR1)
 - Connect an oscilloscope to pin ② (SYNC SEP) and pin ⑨ (H. SYNC) of IC503.
 - Adjust VR1 of IC503 to become $41 \pm 1 \mu\text{sec}$ as follows.

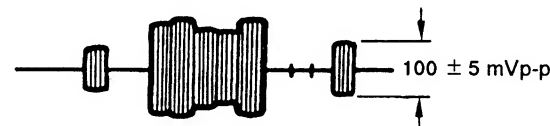


5. V. DELAY Adjustment (VR2)

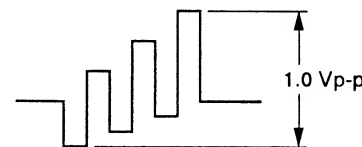
- Connect an oscilloscope to pin ⑥ of IC503.
- Adjust VR2 of IC503 to become $7.7 \pm 0.3 \text{ msec}$ as follows.

**ACC ADJUSTMENT (RV002)**

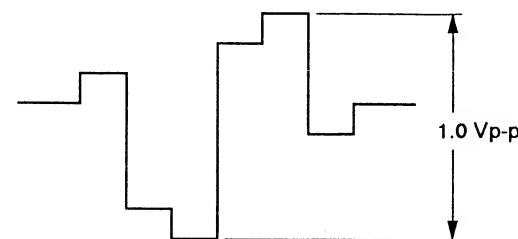
- Receive a color-bar signal (EIA color-bar).
- Connect an oscilloscope to pin ② of IC311.
- Adjust RV002 so that the burst signal level becomes $100 \pm 5 \text{ mVp-p}$.

**B-Y DEM LEVEL ADJUSTMENT (RV003)**

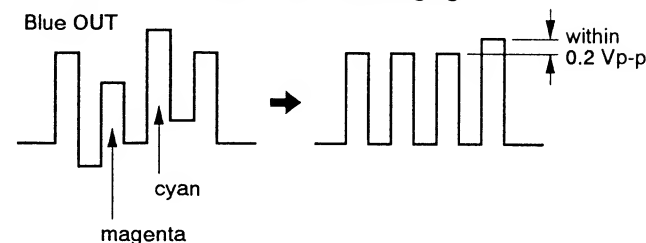
- Receive a color-bar signal (75% chroma color-bar).
- Connect an oscilloscope to TP42 (B-Y).
- Adjust RV003 so that the B-Y waveform becomes 1.0 Vp-p .

**R-Y DEM LEVEL ADJUSTMENT (RV004)**

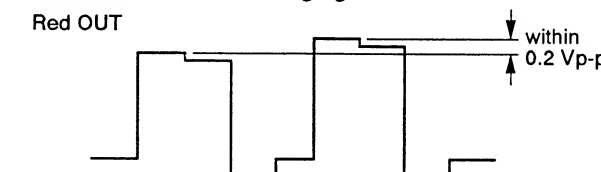
- Receive a color-bar signal (75% chroma color-bar).
- Connect an oscilloscope to TP41 (R-Y).
- Adjust RV004 so that the R-Y waveform becomes 1.0 Vp-p .

**MATRIX ADJUSTMENT (RV006, RV007)**

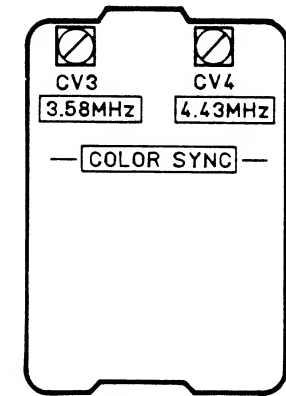
- Receive a color-bar signal.
(white peak: 75%
black level: 0%
chroma max.: 75%
chroma min.: 0%)
- CONTRAST 70%
- Connect an oscilloscope to pin ⑤ (B OUT) of A-15.
- Adjust RV006 (B-Y) so that the BLUE OUT wave-form becomes flat as following figure.



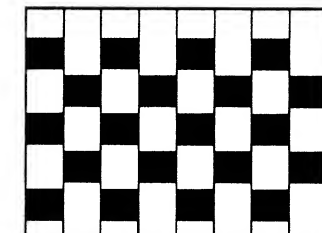
- When there is difference between cyan portion and magenta portion, adjust with RV006 while tracking with PHASE volume for user control.
- Connect an oscilloscope to pin ⑧ (R OUT) of A-15.
- Adjust RV007 (R-Y) so that the RED OUT wave-form becomes flat as following figure.



5-2. XA BOARD ADJUSTMENT

XA BOARD
—COMPONENT SIDE—**COLOR SYNCHRONIZATION (CW) ADJUSTMENT (CV3, CV4)**

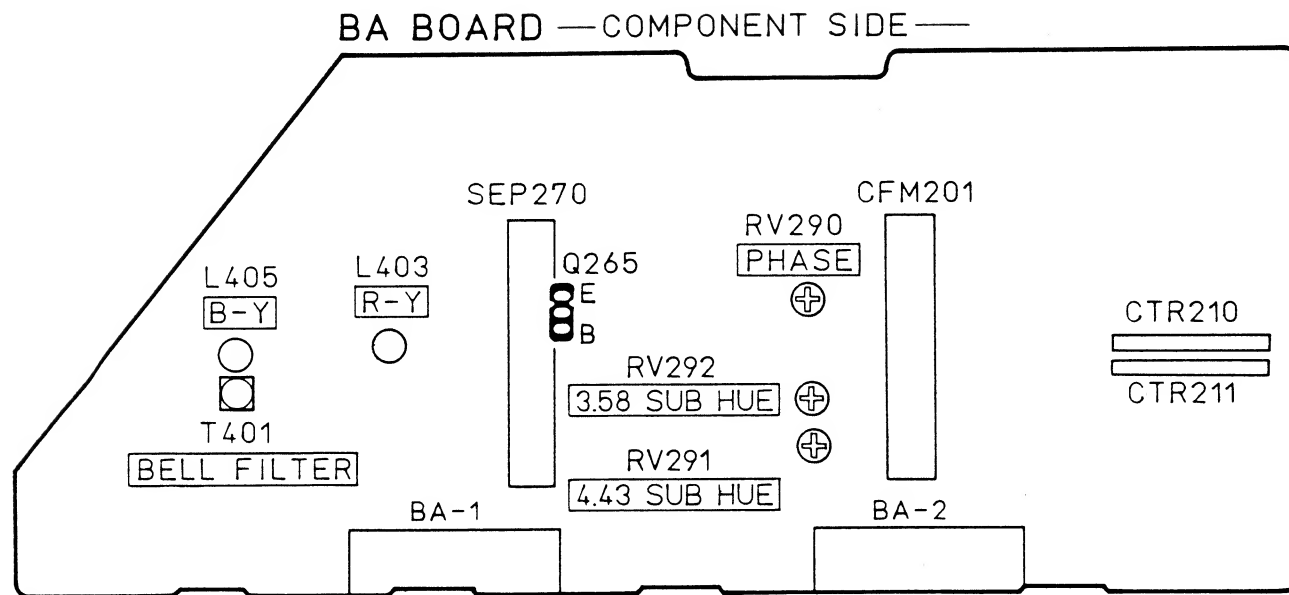
- Short-circuit pins ⑨ and ⑩ of IC301 on A board.
- Connect pin ③ of IC311 on A board to +12 V line via $4.7 \text{ k}\Omega$ resistor.
- Short-circuit base and emitter of Q416 on A board.
- 3.58 MHz Adjustment (CV3)
 - Receive a color-bar signal (EIA color-bar).
 - Adjust CV3 the color synchronization.



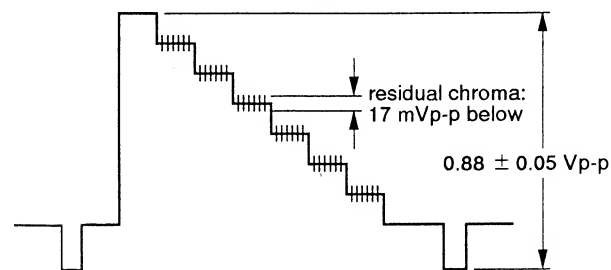
- 4.43 MHz Adjustment (CV4)
 - Receive a color-bar signal (EBU color-bar).
 - Adjust CV4 the color synchronization.
- Remove the short-circuit positions pins ⑨ and ⑩ of IC301 and base and emitter of Q416.

CAUTION: This adjustment (XA board adjustment) should be made earlier than all adjustments of color.

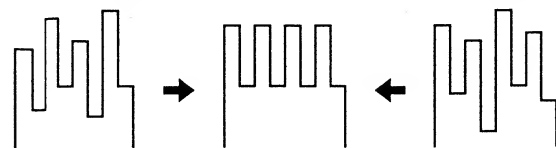
5-3. BA BOARD ADJUSTMENTS

**NTSC 3.58 MHz ADJUSTMENT (RV292)**

1. Receive NTSC 3.58 color-bar signal.
2. Connect to pin ⑪ (Y-OUT) of BA-2 connector.
3. Confirm the Y-OUT is 0.88 ± 0.05 Vp-p.
4. Confirm the residual chroma is 17 mVp-p below. When it is above 17 mVp-p, adjust with RV1 and T1 inside CFM201 while tracking.



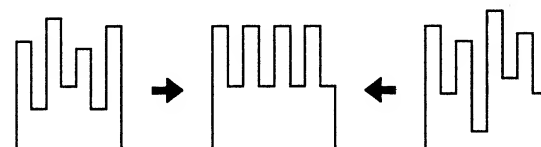
5. Connect an oscilloscope to pin ⑤ (B-OUT) of A-15 connector.
6. Adjust RV292 (3.58 SUB HUE) so that the BLUE OUT waveform level becomes flat as following figure.



Note: CONTRAST.....normal condition
HUE.....Normal condition

NTSC 4.43 MHz ADJUSTMENT (RV291)

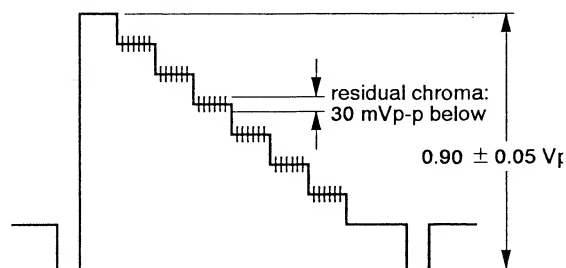
1. Receive NTSC 4.43 color-bar signal.
2. Confirm the voltage on pin ④ of CTR210 is above 5.0 V DC, and on pin ⑤ of CTR210 is below 0.1 V DC.
3. Connect an oscilloscope to pin ⑤ of A-15 connector.
4. Adjust RV291 (4.43 SUB HUE) so that the BLUE OUT waveform level becomes flat as following figure.



Note: CONTRAST.....Normal condition
HUE.....Normal condition

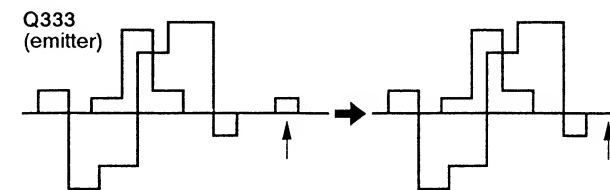
PAL ADJUSTMENTS (RV290)

1. Receive PAL 4.43 color-bar signal.
2. Confirm the voltage on pin ④ of CTR210 is above 5.0 V DC, and on pin ⑤ of CTR210 is below 1.0 V DC.
3. Connect an oscilloscope to pin ⑪ of BA-2 connector.
4. Confirm the Y-OUT is 0.90 ± 0.05 Vp-p and the residual chroma is below 30 mVp-p.

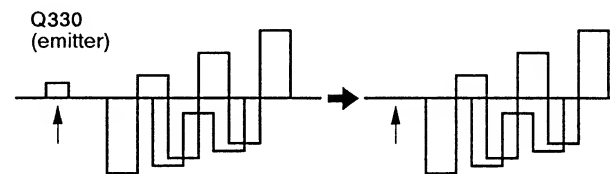


5. ANTI-PAL Adjustment (RV290)

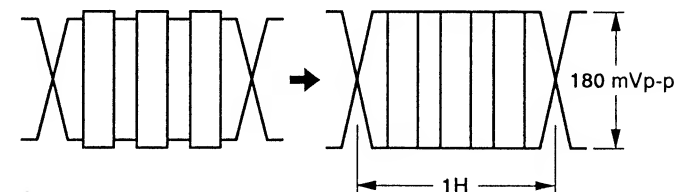
- (1) Receive the special PAL color-bar.
- (2) Connect an oscilloscope to emitter of Q333 on A board, and adjust RV290 (PHASE) so that R-Y anti-PAL portion becomes flat as following figure.



- (3) Connect an oscilloscope to emitter of Q330 on A board, and adjust RV2 inside SEP270 so that B-Y anti-PAL portion becomes flat as following figure.

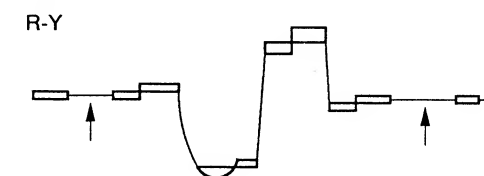
**SECAM ADJUSTMENTS (T401, L403, L405)**

1. Receive SECAM color-bar.
2. Bell Filter Adjustment (T401)
 - (1) Connect an oscilloscope to emitter of Q265.
 - (2) Adjust T401 (Bell Filter) so that the chroma waveform becomes smooth.



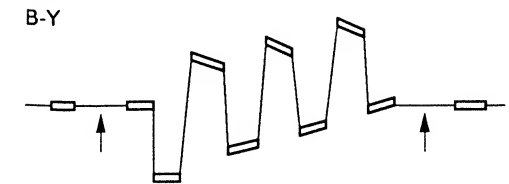
3. Color Balance Adjustment (L403)

- (1) Connect an oscilloscope to pin ⑦ (R-Y) of BA-1 connector.
- (2) Adjust L403 (R-Y) so that the non-colored portion level becomes flat.



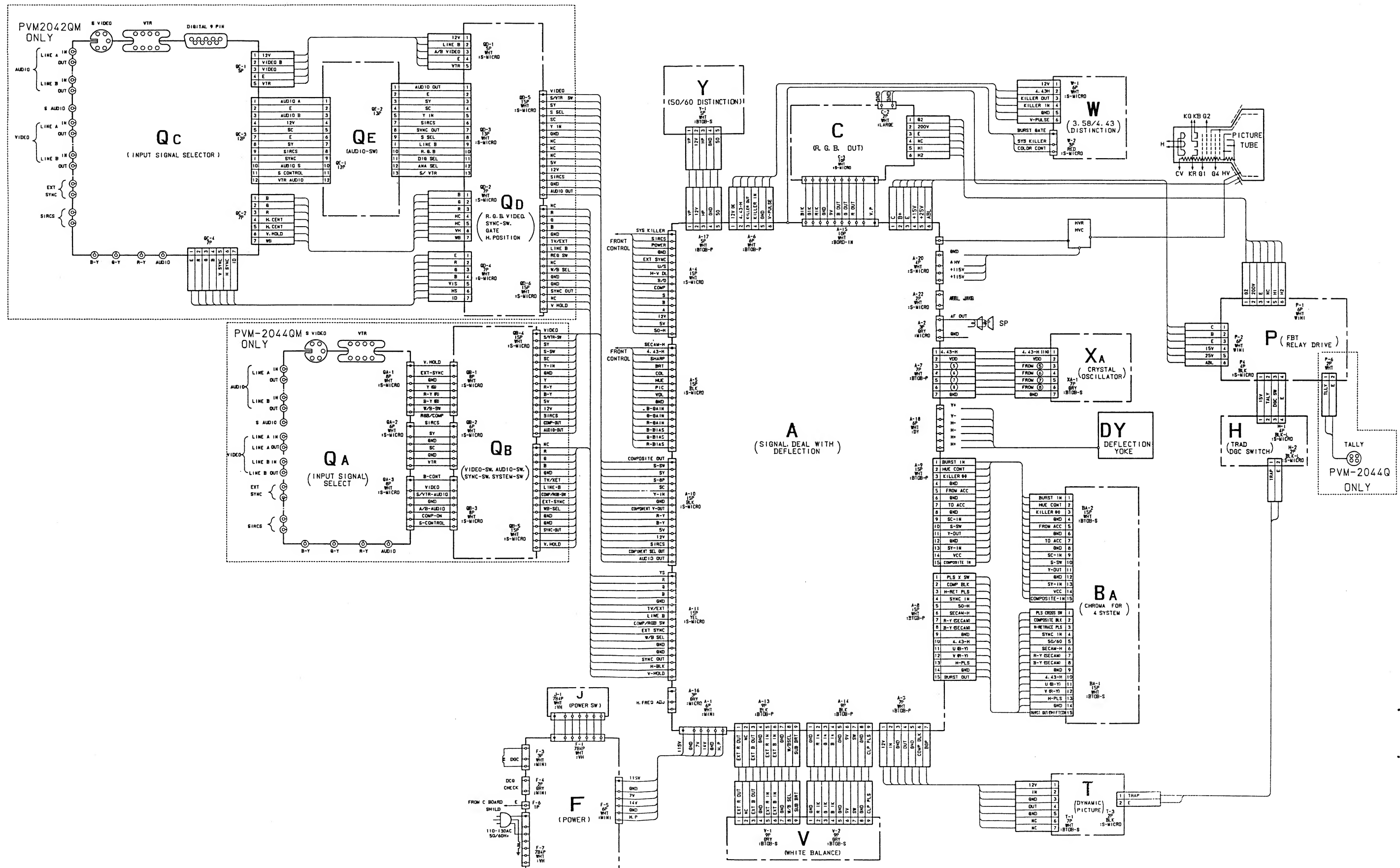
- (3) Connect an oscilloscope to pin ⑧ (B-Y) of BA-1 connector.

- (4) Adjust L405 (B-Y) so that the non-colored portion level becomes flat.

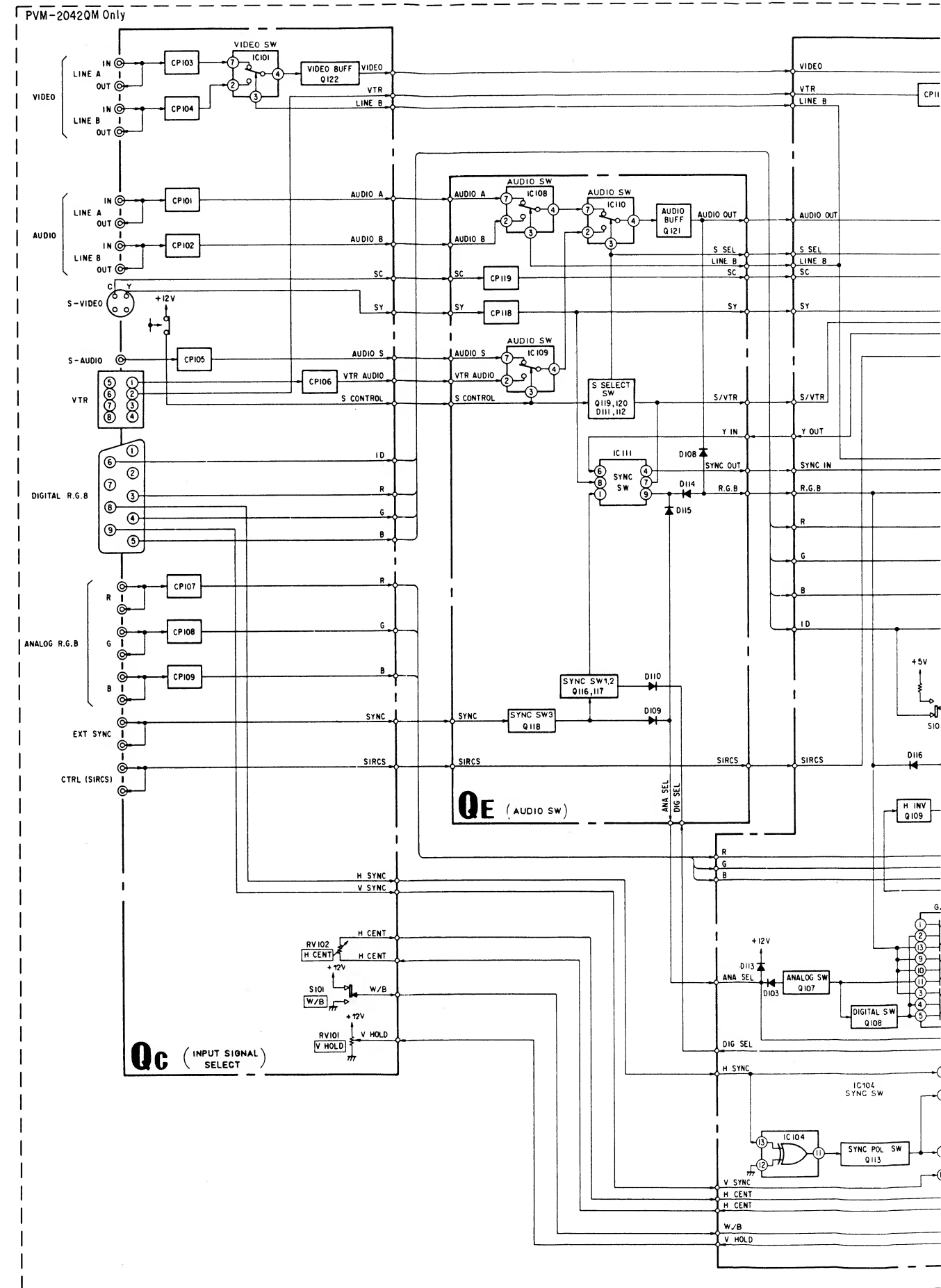
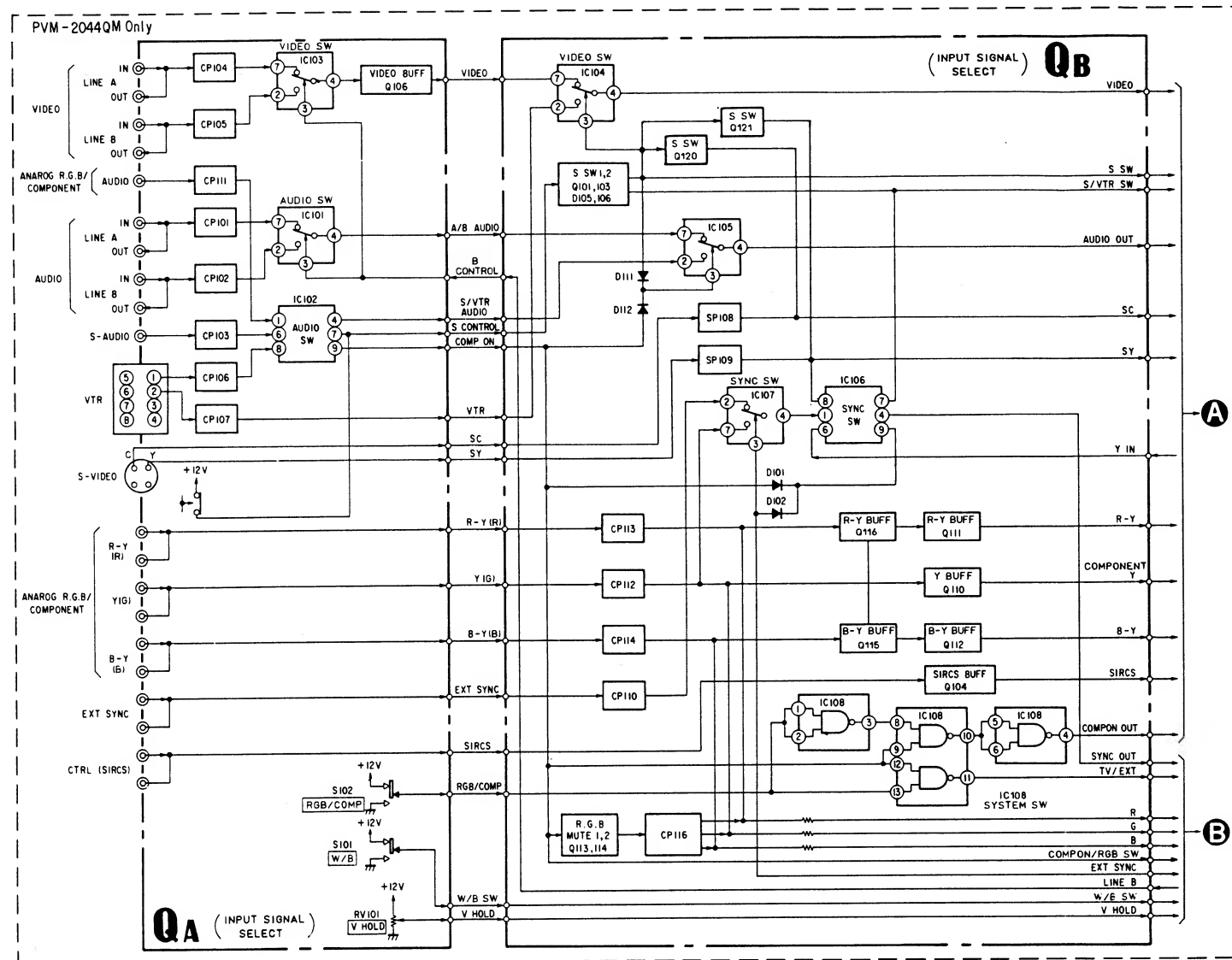


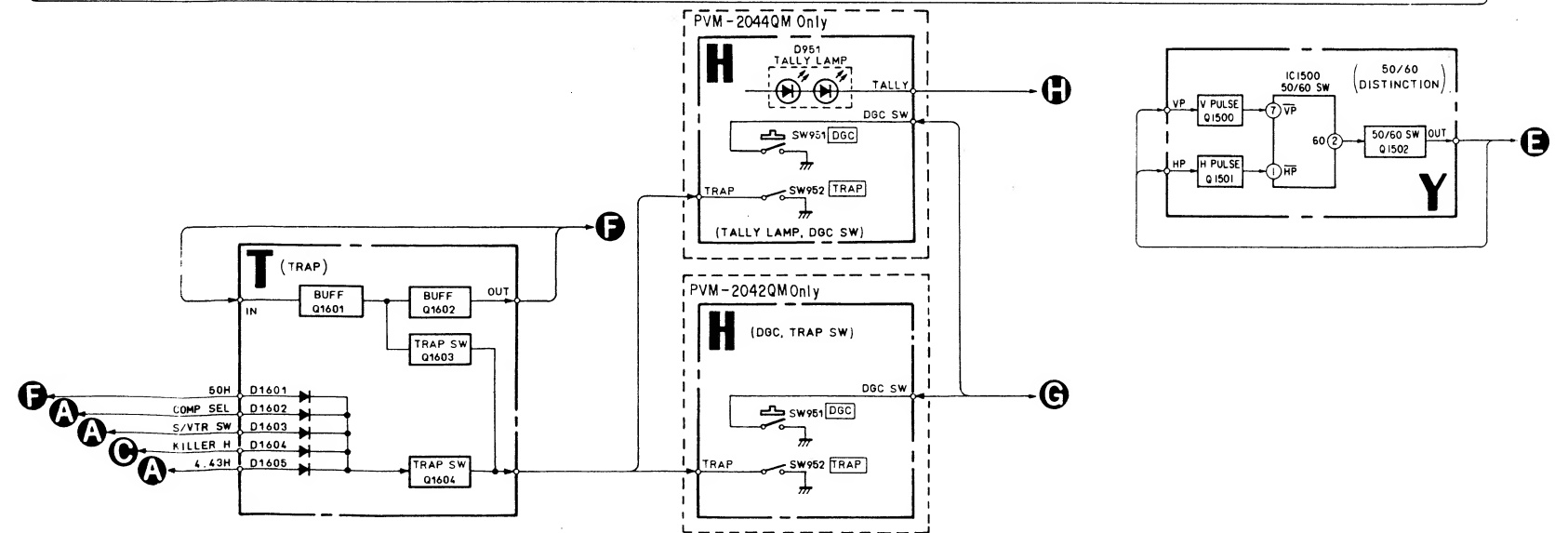
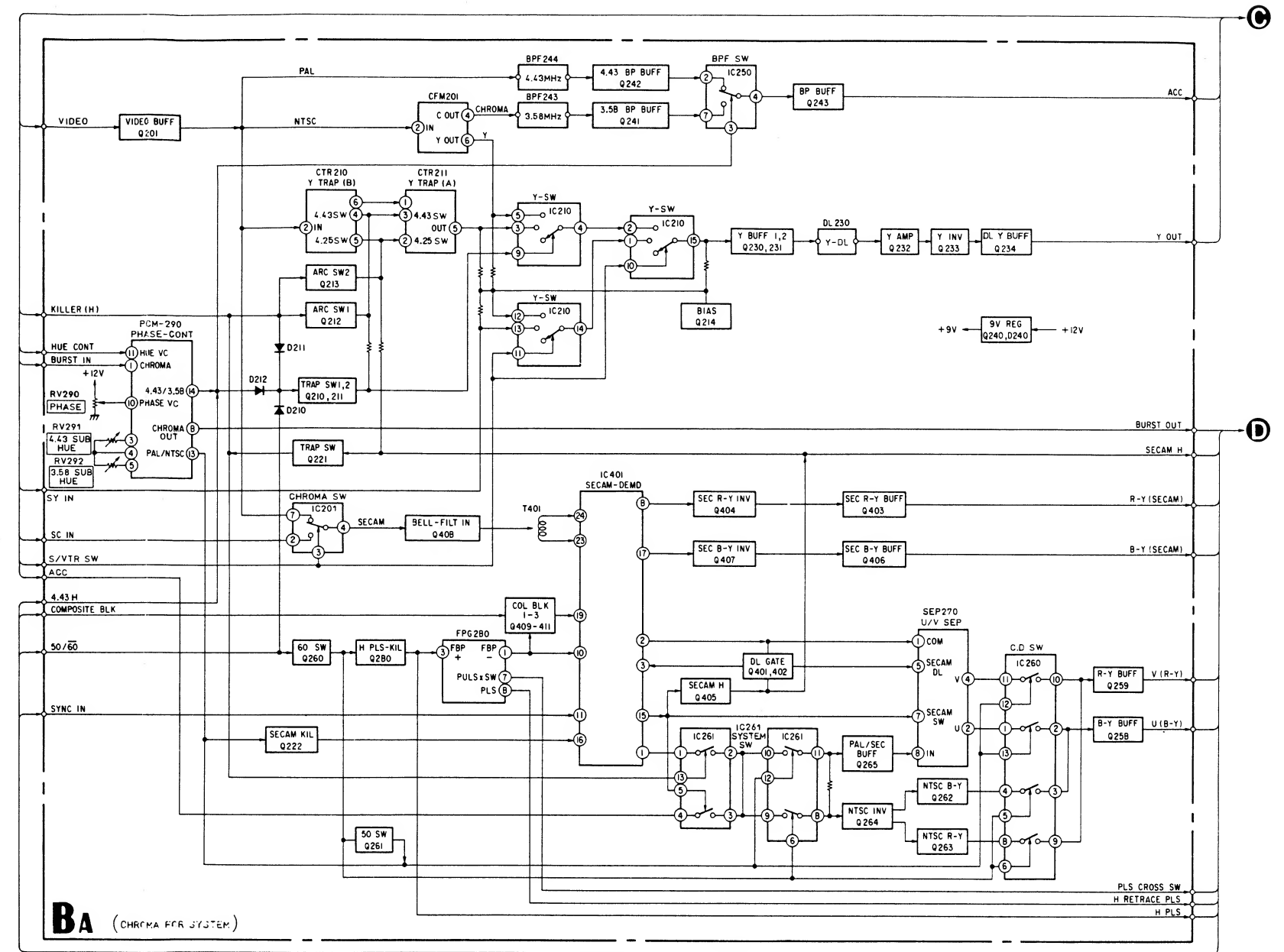
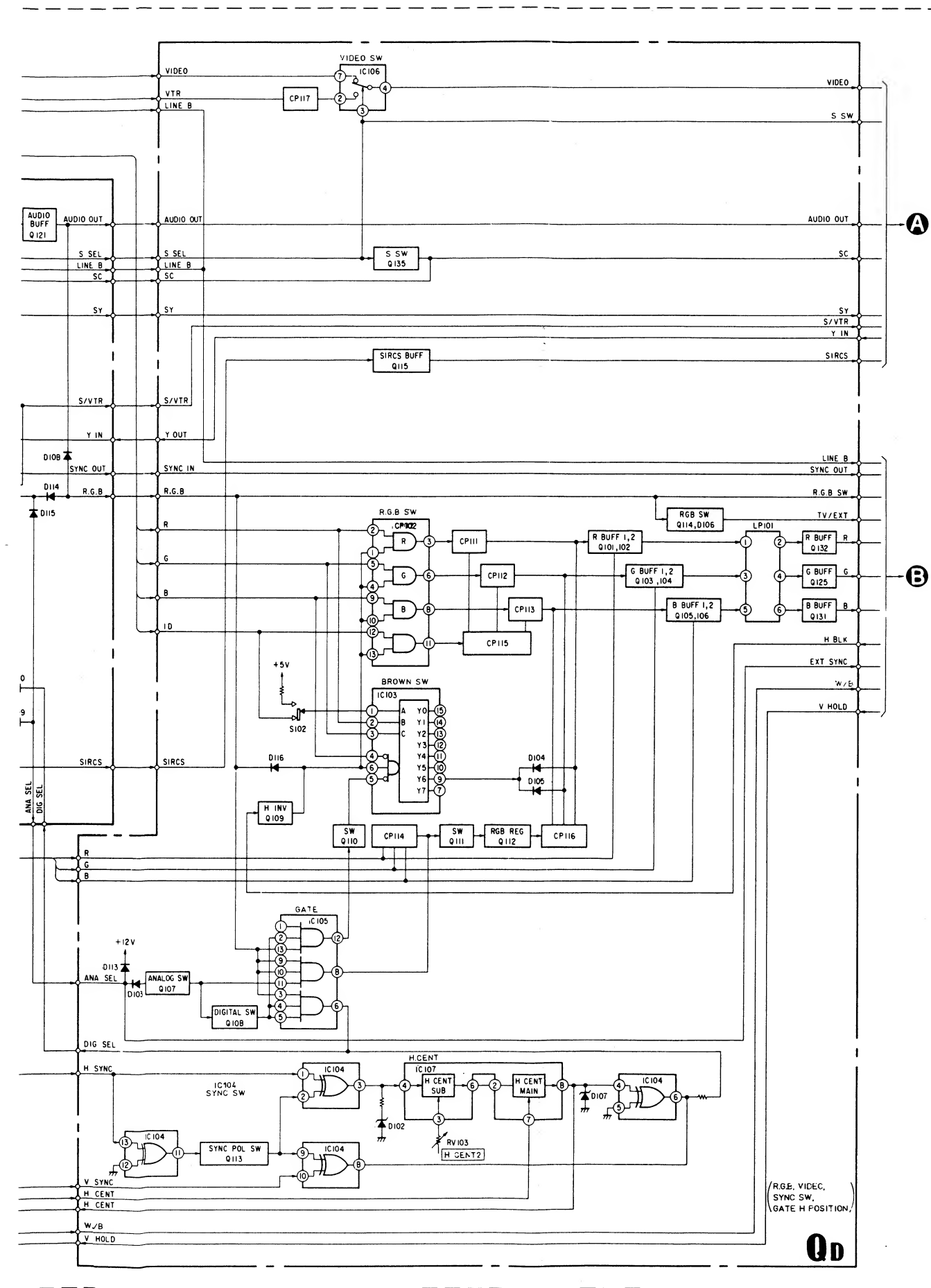
SECTION 6 DIAGRAMS

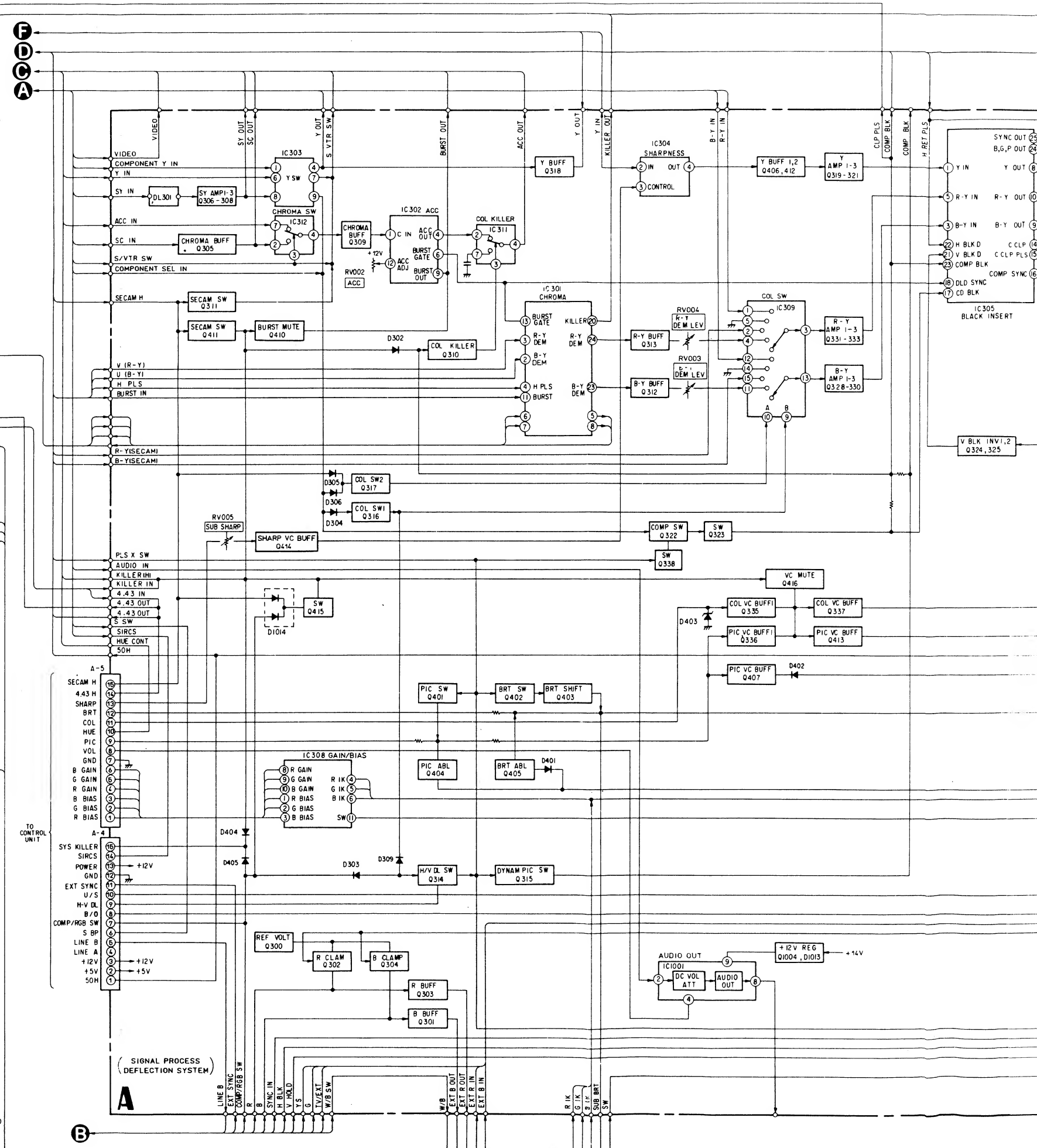
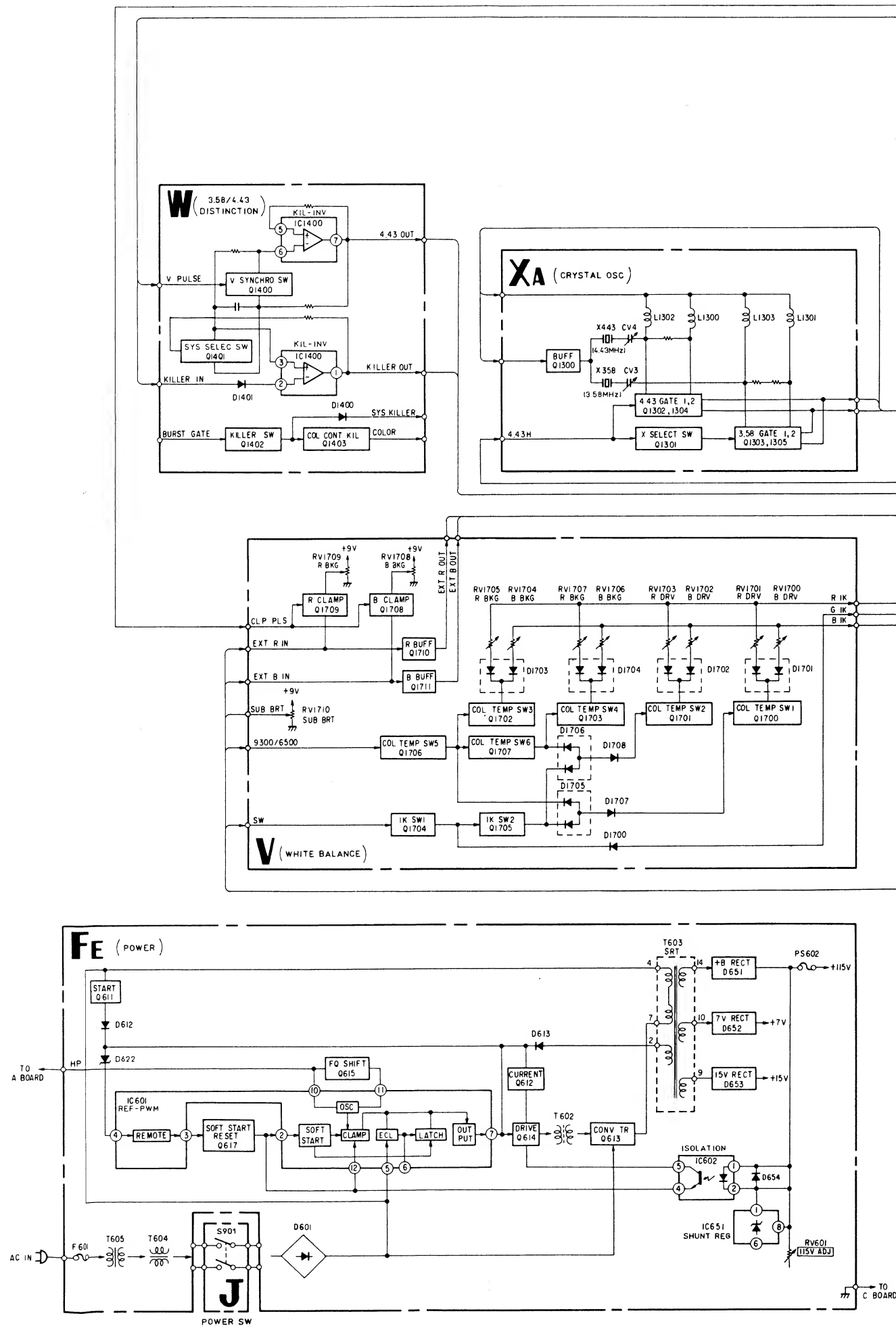
6-1. FRAME SCHEMATIC DIAGRAM

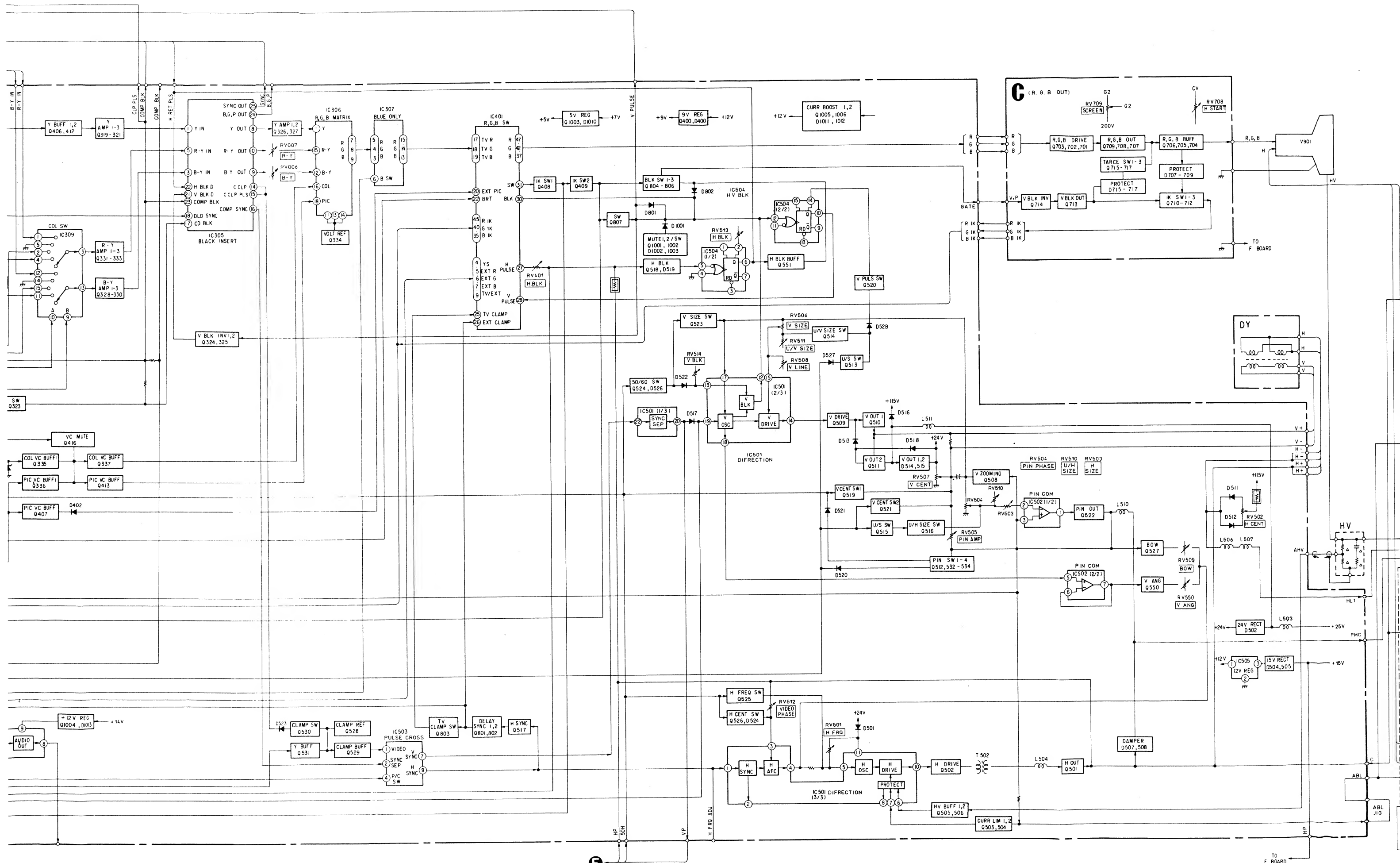


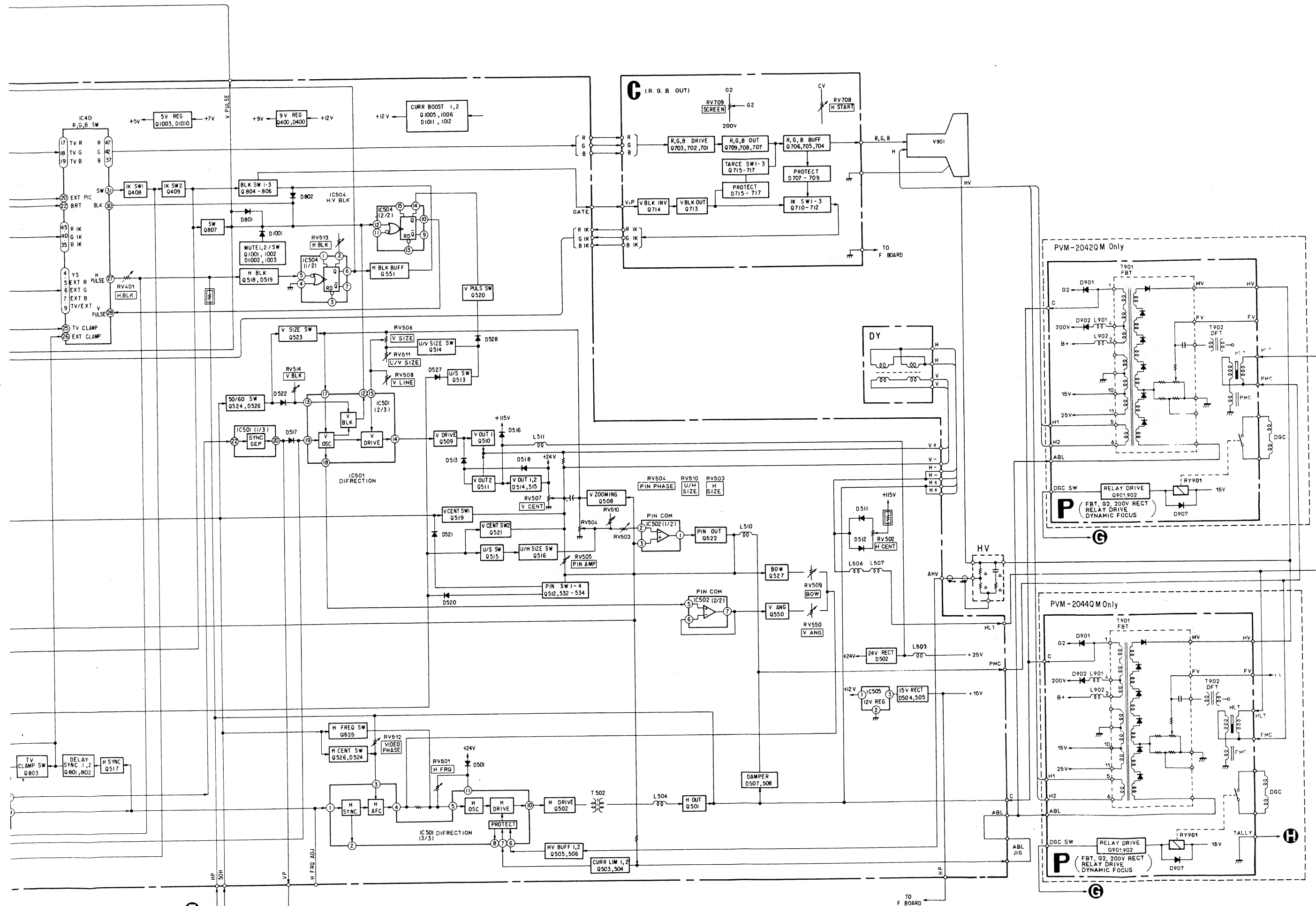
6-2. BLOCK DIAGRAMS









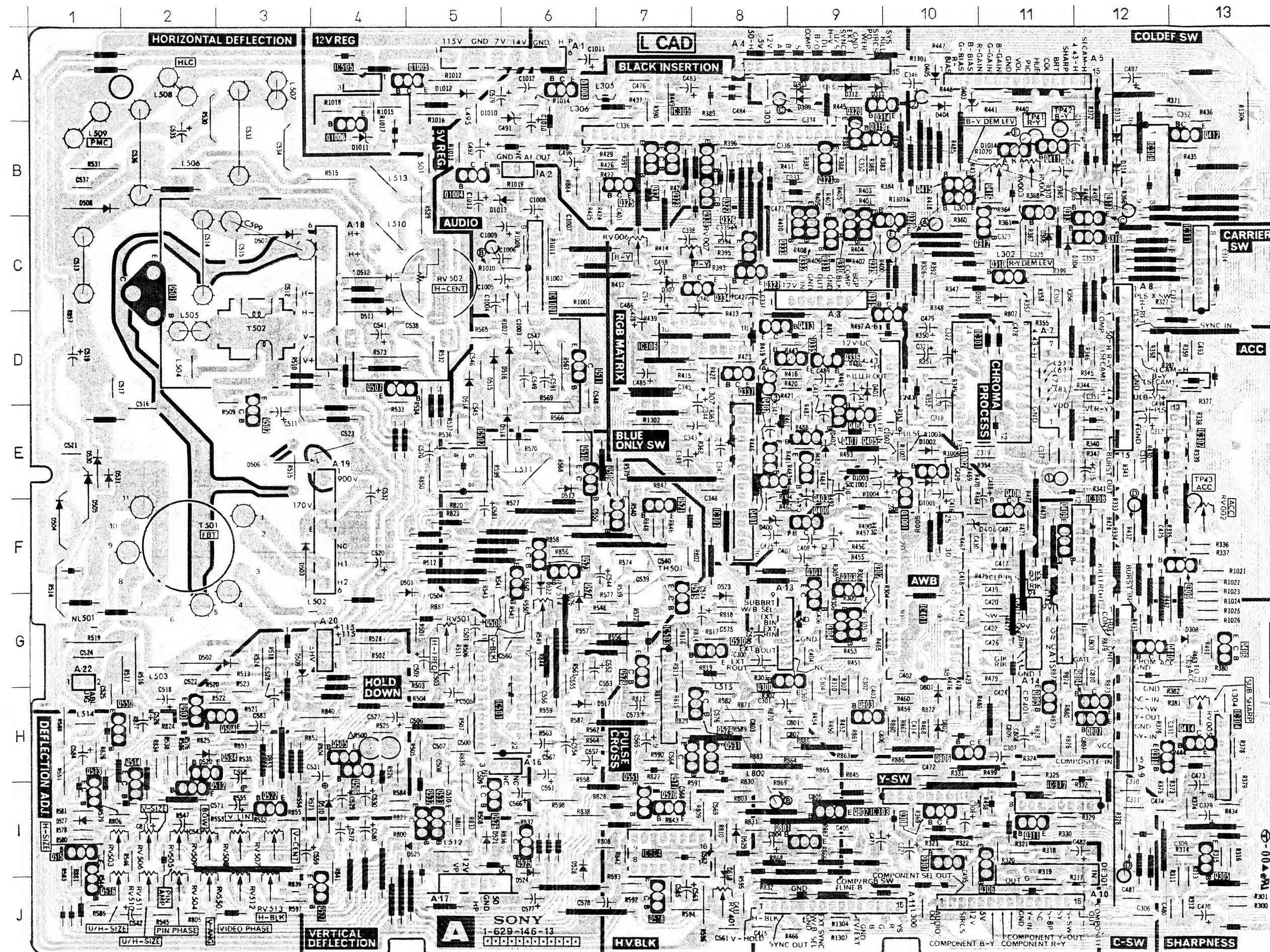


A

[SIGNAL PROCESS, DEFLECTION SYSTEM]

PVM-2042QM/2044QM

PVM-2042QM/2044QM



IC		
IC301	D-11	Q330 C-9
IC302	E-13	Q331 C-9
IC303	I-10	Q332 C-9
IC304	H-13	Q333 C-9
IC305	B-7	Q334 C-8
IC306	D-8	Q335 D-9
IC307	E-8	Q336 D-9
IC308	F-12	Q337 D-8
IC309	B-12	Q338 B-8
IC311	C-13	Q400 F-9
IC312	I-11	Q401 E-8
IC401	G-10	Q402 E-8
IC501	H-5	Q403 E-9
IC502	E-5	Q404 E-9
IC503	H-7	Q405 E-9
IC504	I-7	Q406 G-13
IC505	A-4	Q407 E-9
IC1001	C-6	Q408 F-11
		Q409 F-11
		Q410 G-12
		Q411 B-11
		Q412 B-13
		Q413 D-8
		Q414 H-13
		Q415 B-10
		Q416 B-10
TRANSISTOR		
Q300	G-8	Q501 C-2
Q301	G-9	Q502 E-3
Q302	G-9	Q503 H-2
Q303	G-9	Q504 H-2
Q304	G-9	Q505 H-4
Q305	I-13	Q506 H-4
Q306	I-11	Q507 D-4
Q307	I-10	Q508 F-6
Q308	I-10	Q509 F-7
Q309	I-13	Q510 E-6
Q310	C-11	Q511 D-6
Q311	I-11	Q512 I-2
Q312	C-11	Q513 I-1
Q313	B-11	Q514 I-2
Q314	A-9	Q515 I-1
Q315	D-9	Q516 J-1
Q316	C-12	Q517 H-7
Q317	C-12	Q518 J-7
Q318	H-12	Q519 G-7
Q319	B-9	Q520 I-7
Q320	B-9	Q521 F-7
Q321	B-9	Q522 I-3
Q322	B-8	Q523 F-6
Q323	B-7	Q524 F-6
Q324	B-7	Q525 I-6
Q325	B-7	Q526 I-5
Q326	C-8	Q528 G-7
Q327	C-8	Q529 H-8
Q328	C-9	Q530 G-8
Q329	C-9	

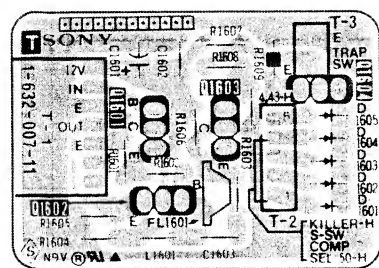
T [TRAP]

W [3.58/4.43]
DISTINCTION

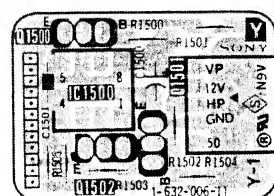
X_A [CRYSTAL
OSC]

Y [50/60
DISTINCTION]

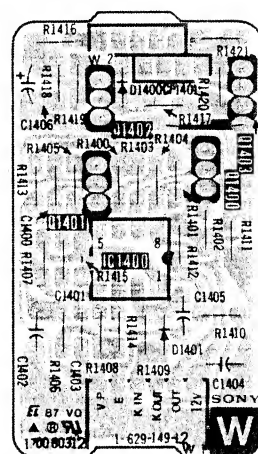
— T Board —



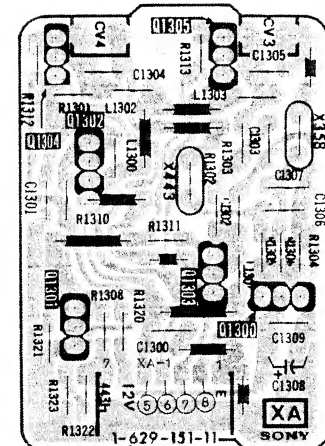
— Y Board —



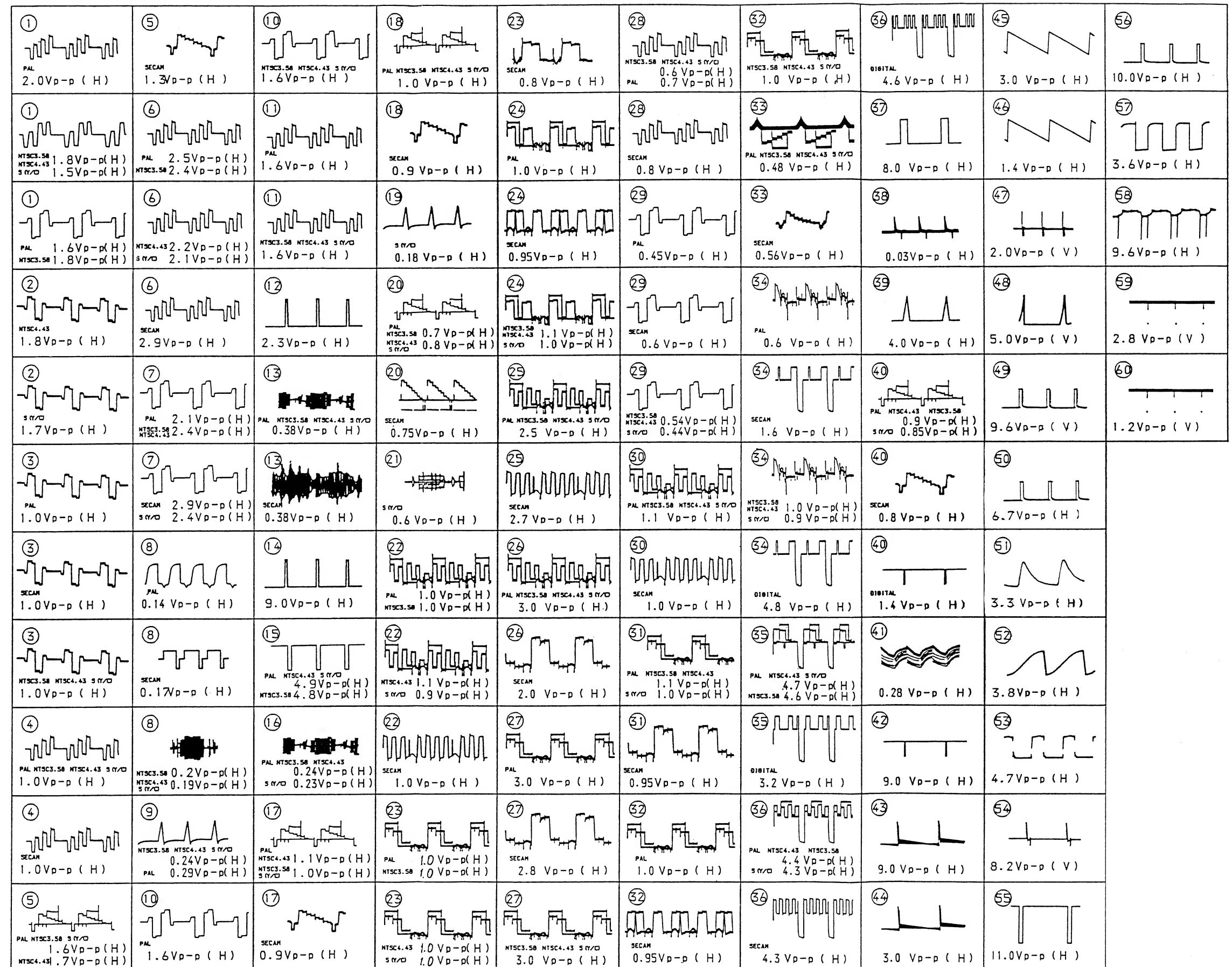
— W Board —



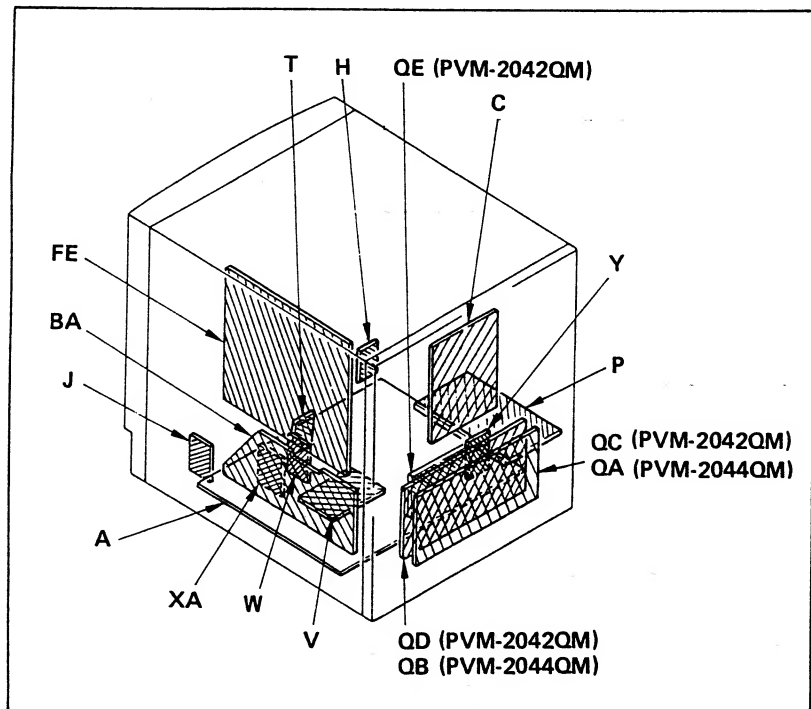
– XA Board –



A BOARD WAVEFORMS



6-4. CIRCUIT BOARDS LOCATION



Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power $\frac{1}{4}$ W

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R500 and R690 adjust on Page 17 and 18.)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment ()
IC601, IC602, IC651, D654, D655, C658, C659, R634, R652, R653, R654, R655, R656, R657, R685, R671, R690, RV601	R690 (B+ MAX)
IC501, Q503, Q504, Q505, Q506, D509, D510, C505, C520, C524, C525, C526, C527, C528, C529, C530, C531, R500, R508, R518, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R528, R604, NL501, HVR	R500 (HOLD-DOWN)

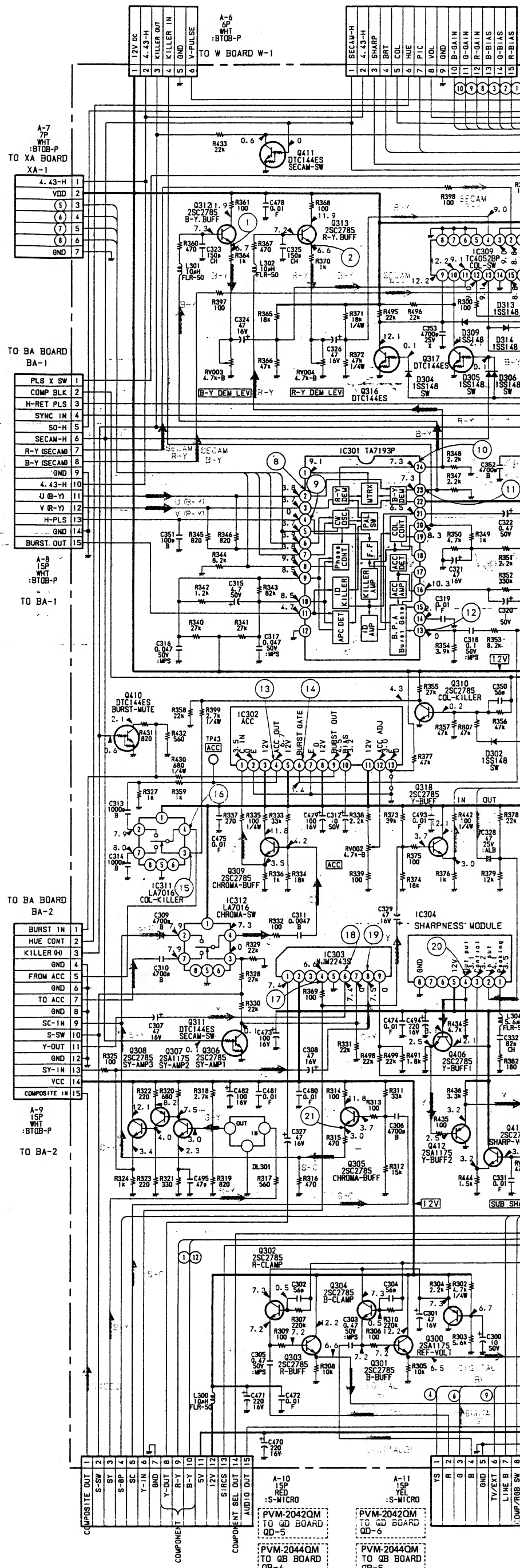
- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Readings are taken with a NTSC 3.58 color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B+ bus.
- : B- bus.
- : signal path.
- No mark: with NTSC 3.58 color-bar signal received or common voltage.
- For the respective voltage ratings in PAL, SECAM, NTSC 4.43, S-VIDEO, and DIGITAL modes, see the table.

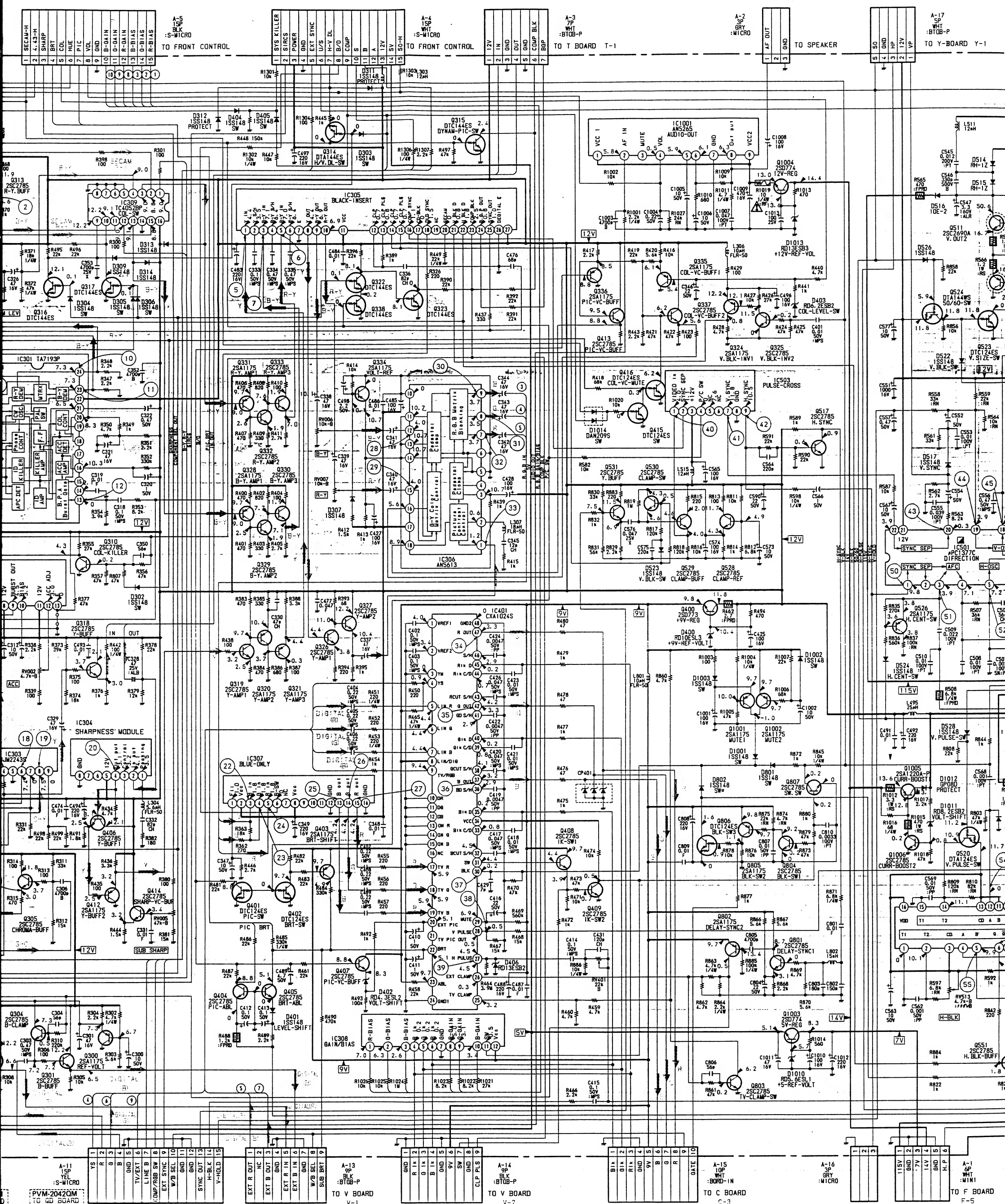
Reference information

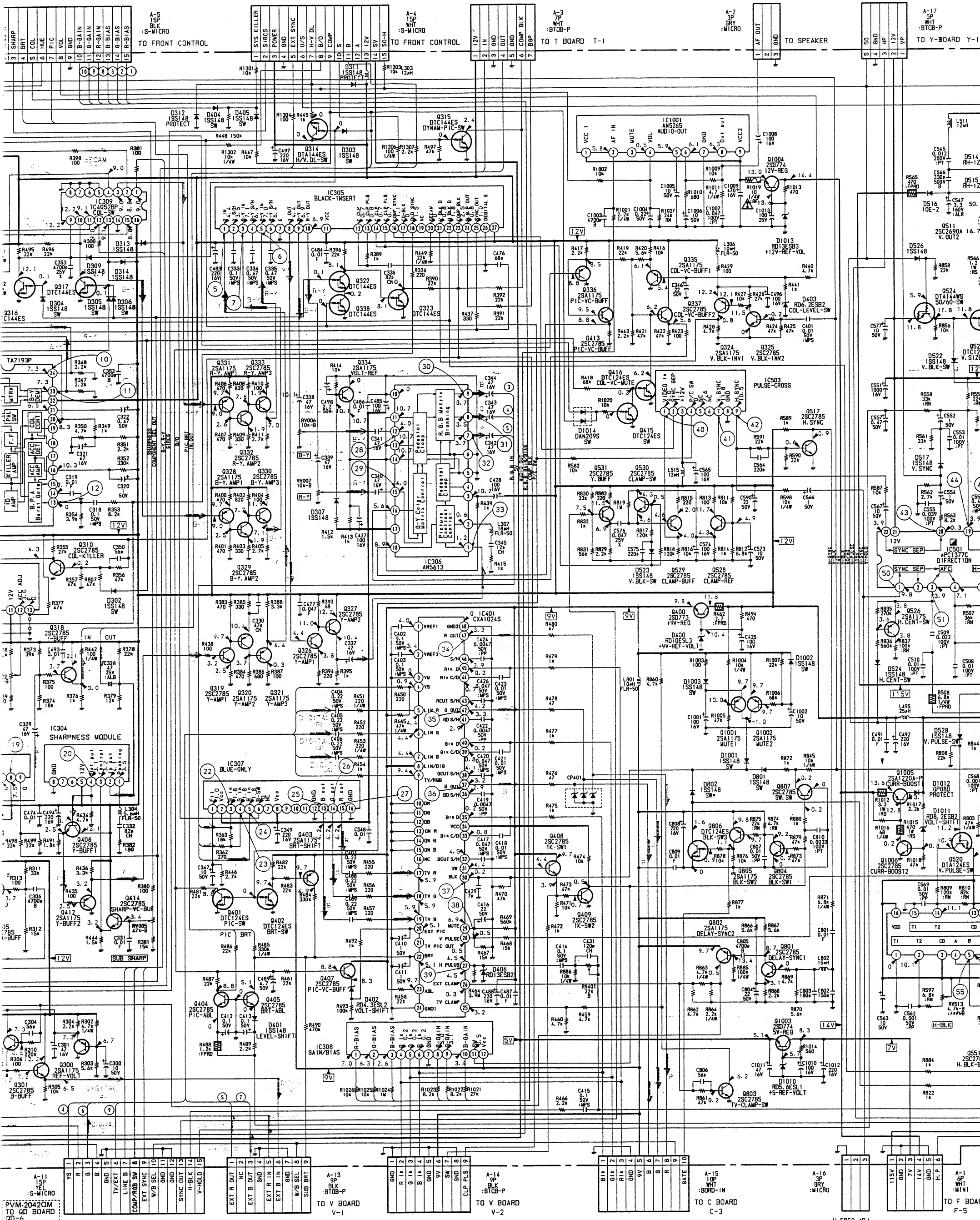
RESISTOR	RESISTOR
: RN	METAL FILM
: RC	SOLID
: FPRD	NONFLAMMABLE CARBON
: FUSE	NONFLAMMABLE FUSIBLE
: RW	NONFLAMMABLE WIREWOUND
: RS	NONFLAMMABLE METAL OXIDE
: RB	NONFLAMMABLE CEMENT
COIL	COIL
: LF-8L	MICRO INDUCTOR
CAPACITOR	CAPACITOR
: TA	TANTALUM
: PS	STYROL
: PP	POLYPROPYLENE
: PT	MYLAR
: MPS	METALIZED POLYESTER
: MPP	METALIZED POLYPROPYLENE
: ALB	BIPOLAR
: ALT	HIGH TEMPERATURE
: ALR	HIGH RIPPLE

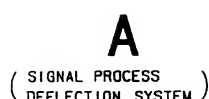
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

6-5. SCHEMATIC DIAGRAMS

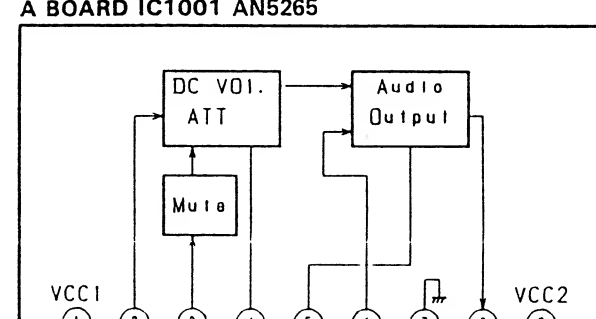


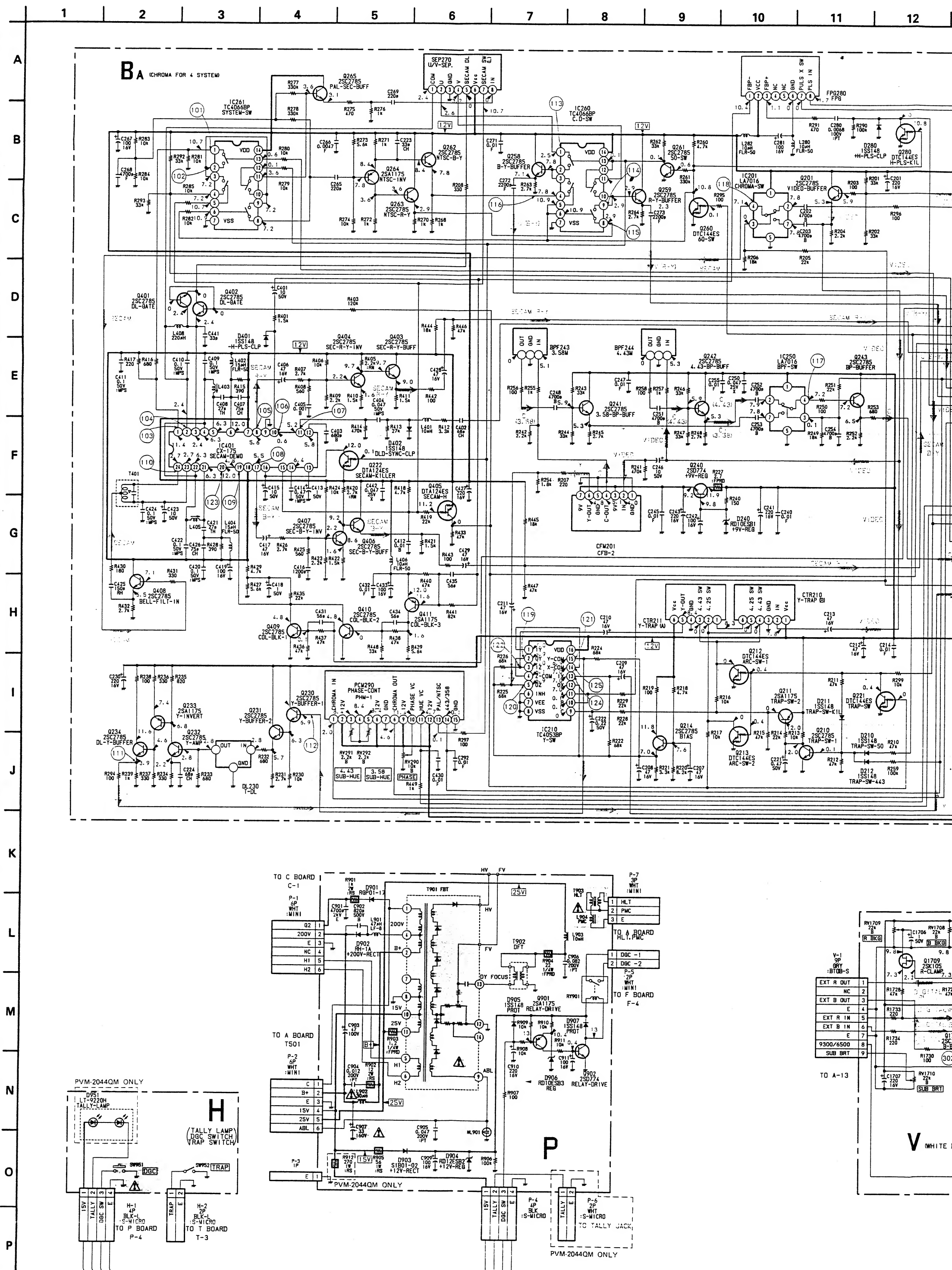






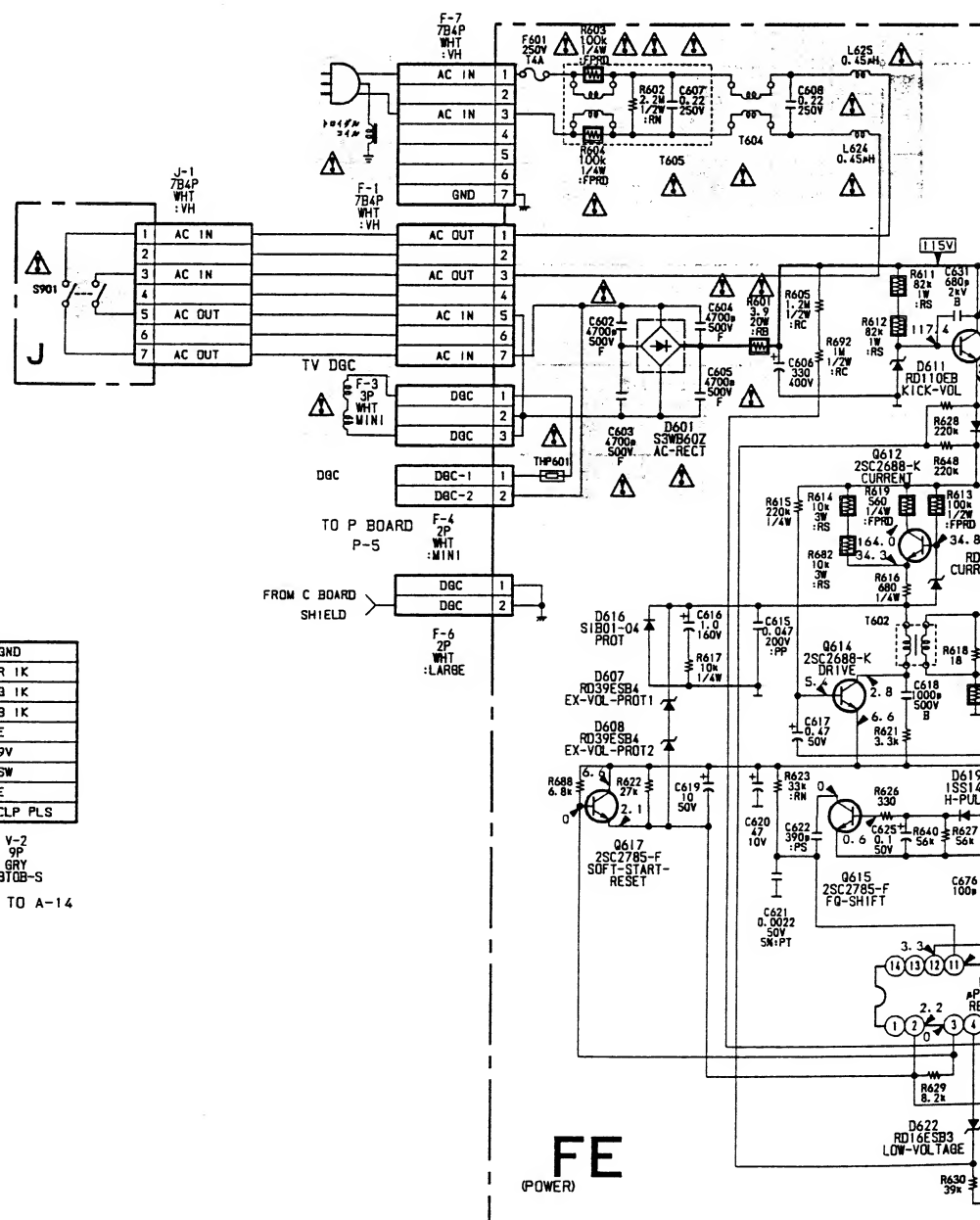
GRY
:BT0B-S
TO A BOARD
A-7

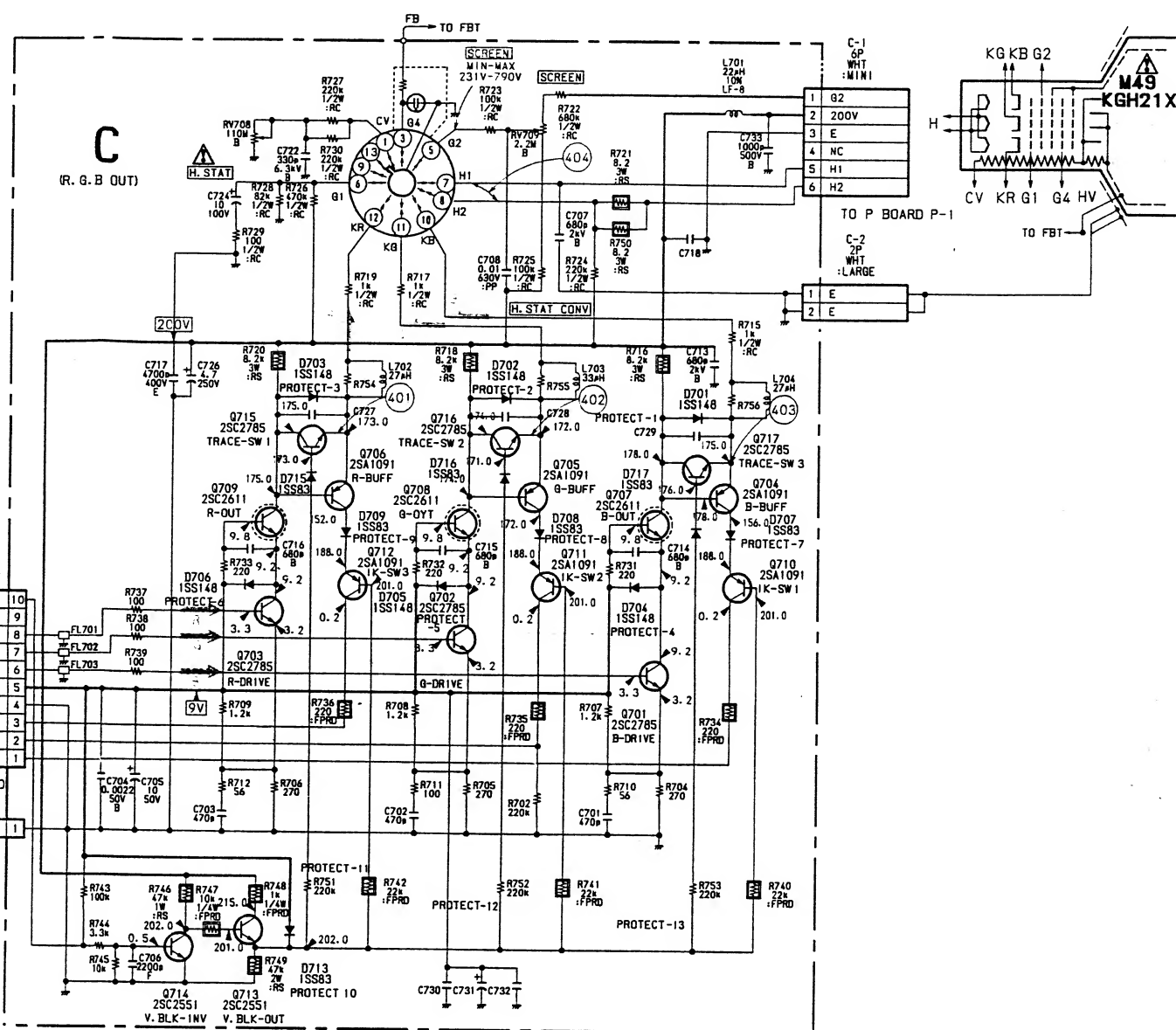




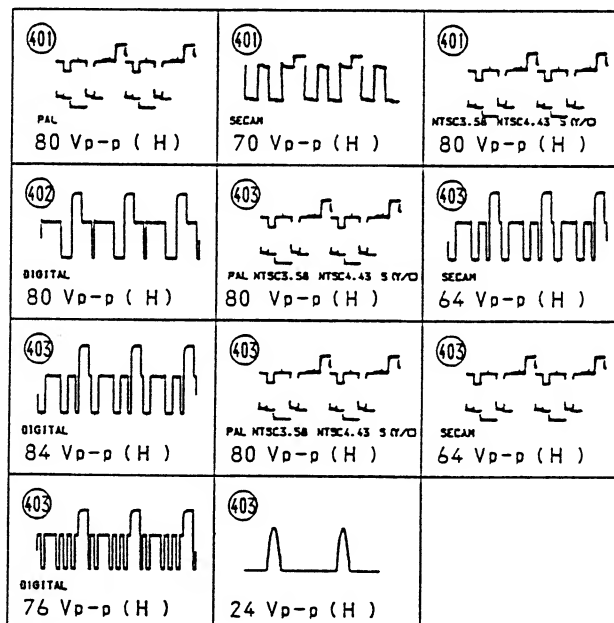
IC • NO.	PIN-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
IC250	(1)	1.6	*	0.1	4.6	2	*
IC201	(1)	2.6	2.6	0	0	4.7	2.1
	(1)	0	0	7.6	7.6	2.7	5.4
	(1)	0	0	10.9	10.9	10.7	10.6
IC260	(1)(10)	3.2	3.2	2.9	2.9	2.9	2.9
	(1)	12.0	12.0	0.1	0.1	0.1	0.1
	(1)	10.6	10.6	10.7	10.6	10.6	10.1
	(1)	7.2	7.2	7.2	7.2	7.1	7.5
	(1)	7.2	10.6	7.2	7.2	7.1	7.6
IC261	(1)	10.7	0.1	10.7	10.7	10.5	10.6
	(1)	0	0	10.9	10.8	10.6	10.6
	(1)	5.6	5.9	7.2	7.2	7.1	7.8
	(1)(1)	7.2	10.6	7.2	7.2	7.1	7.8
	(1)	7.2	10.6	3.6	3.6	3.6	3.5
	(1)	12.0	12.0	0.1	0.1	0.1	0.1
	(1)	5.6	10.1	5.6	5.6	5.6	10.1
	(1)	5.6	5.6	4.5	5.6	4.2	5.4
IC401	(1)	10.7	0.1	10.7	10.7	—	—
	(1)	7.7	6.7	12.0	12.0	11.8	11.8
	(1)	12.0	9	12.0	12.0	11.8	11.8
IC210	(1)	0.1	0.1	0.1	0.1	10.6	2.1
	(1)	0.1	0.1	0.1	0.1	10.6	5.1

<p>(101)</p> <p>PAL 0.25Vp-p (H) NTSC4.43 0.26Vp-p (H)</p>	<p>(103)</p> <p>SECAM 0.24Vp-p (H)</p>	<p>(109)</p> <p>SECAM 3.0Vp-p (H)</p>	<p>(112)</p> <p>NTSC3.58 0.64Vp-p (H)</p>	<p>(119)</p> <p>NTSC3.58 NTSC4.43 0.5Vp-p (H)</p>
<p>(101)</p> <p>0.26Vp-p (H)</p>	<p>(103)</p> <p>NTSC3.58 0.24Vp-p (H) NTSC4.43 0.22Vp-p (H)</p>	<p>(109)</p> <p>5.0Vp-p (H)</p>	<p>(112)</p> <p>SECAM 0.56Vp-p (H)</p>	<p>(117)</p> <p>PAL NTSC3.58 0.3Vp-p (H) NTSC4.43 0.26Vp-p (H)</p>
<p>(101)</p> <p>NTSC3.58 0.22Vp-p (H) SECAM 0.2Vp-p (H)</p>	<p>(104)</p> <p>PAL 0.39Vp-p (H)</p>	<p>(110)</p> <p>PAL 0.59Vp-p (H) NTSC4.43 0.64Vp-p (H)</p>	<p>(113)</p> <p>0.15Vp-p (H)</p>	<p>(117)</p> <p>SECAM 0.34Vp-p (H)</p>
<p>(102)</p> <p>PAL 0.24Vp-p (H)</p>	<p>(104)</p> <p>SECAM 0.49Vp-p (H)</p>	<p>(110)</p> <p>NTSC3.58 0.38Vp-p (H) SECAM 0.16Vp-p (H)</p>	<p>(113)</p> <p>SECAM 0.14Vp-p (H)</p>	<p>(118)</p> <p>PAL 1.0Vp-p (H) NTSC3.58 0.92Vp-p (H)</p>
<p>(102)</p> <p>SECAM 0.14Vp-p (H)</p>	<p>(104)</p> <p>NTSC3.58 0.59Vp-p (H) NTSC4.43 0.6Vp-p (H)</p>	<p>(111)</p> <p>PAL 3.8Vp-p (H) SECAM 0.8Vp-p (H)</p>	<p>(113)</p> <p>NTSC3.58 NTSC4.43 0.3Vp-p (H)</p>	<p>(118)</p> <p>NTSC4.43 0.96Vp-p (H)</p>
<p>(102)</p> <p>NTSC3.58 0.2Vp-p (H) NTSC4.43 0.2Vp-p (H)</p>	<p>(105)</p> <p>SECAM 0.5Vp-p (H)</p>	<p>(111)</p> <p>NTSC3.58 3.7Vp-p (H) NTSC4.43 3.9Vp-p (H)</p>	<p>(114)</p> <p>PAL 0.26Vp-p (H)</p>	<p>(118)</p> <p>SECAM 0.96Vp-p (H)</p>
<p>(102)</p> <p>SECAM 0.19Vp-p (H)</p>	<p>(106)</p> <p>1.4Vp-p (H)</p>	<p>(111)</p> <p>0.3Vp-p (H)</p>	<p>(114)</p> <p>NTSC3.58 NTSC4.43 0.38Vp-p (H)</p>	<p>(118)</p> <p>SECAM 0.24Vp-p (H)</p>
<p>(103)</p> <p>PAL 0.26Vp-p (H)</p>	<p>(107)</p> <p>3.6Vp-p (H)</p>	<p>(112)</p> <p>PAL 0.66Vp-p (H)</p>	<p>(115)</p> <p>NTSC3.58 NTSC4.43 0.38Vp-p (H)</p>	<p>(119)</p> <p>NTSC4.43 0.68Vp-p (H) SECAM 0.76Vp-p (H)</p>



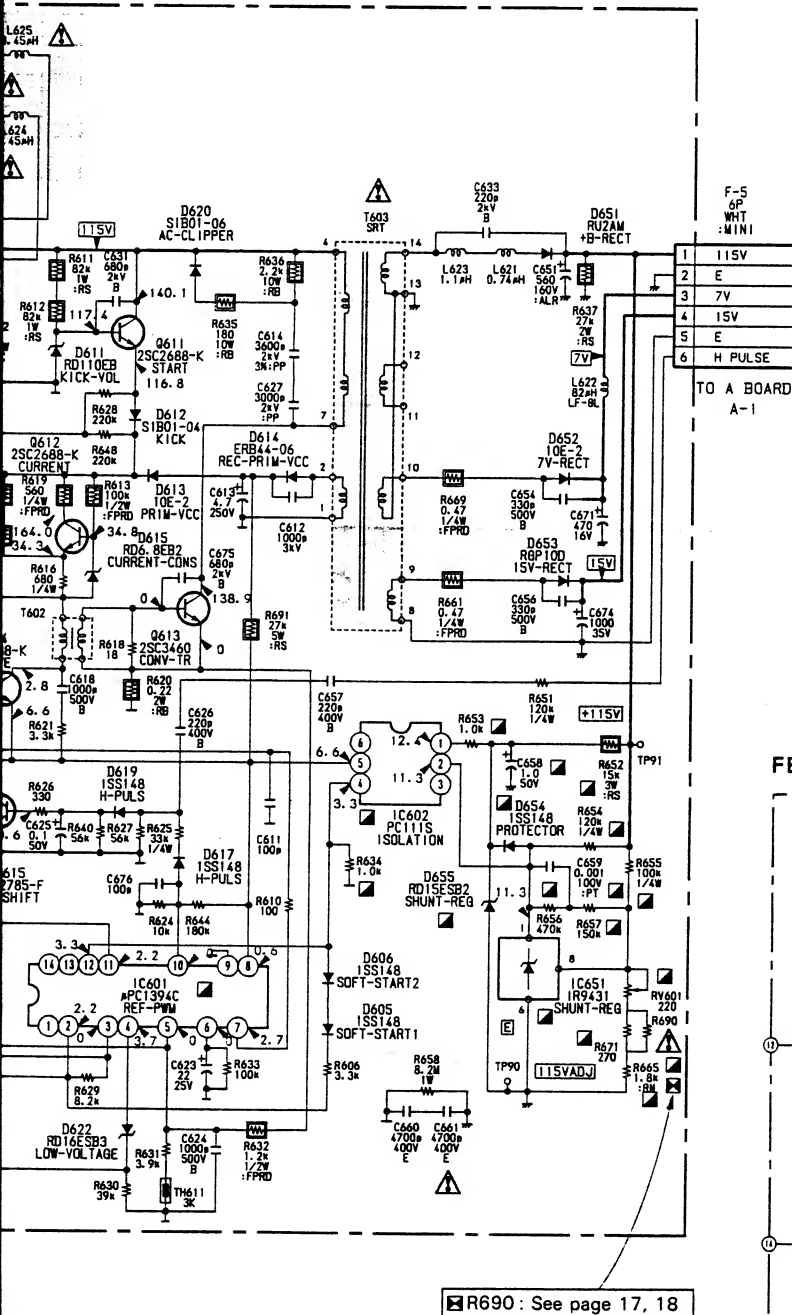
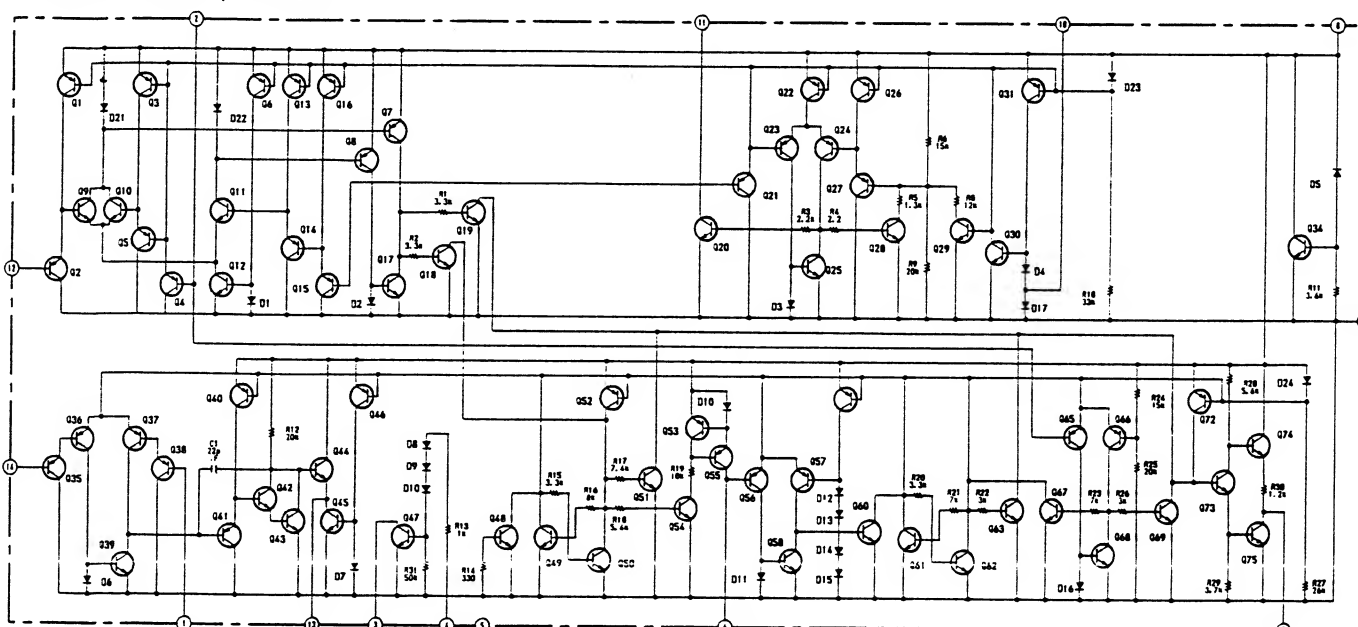


C BOARD WAVEFORMS



C BOARD

Q.NO.	PAL	SECAM	NTSC		S-VIDEO	DIGITAL
			3.58	4.43		
Q704	E 175	175	175	166	69	176
	C 155	158	156	144	---	---
	B 177	177	178	165	171	175
Q705	E 171	172	172	158	65	175
	C 148	145	149	138	147	150
	B 173	174	174	158	167	173
Q706	E 171	204	173	199	166	176
	C 191	215	152	213	146	152
	B 173	204	175	199	168	179
Q707	E 172	172	172	162	160	170
	C 177	177	178	165	171	179
	B 178	178	178	168	176	178
Q708	E 173	174	174	158	167	173
	C 173	---	---	---	---	---
	B 173	---	---	---	---	---
Q709	E 173	174	175	159	167	179
	C 173	---	---	---	---	---
	B 173	---	---	---	---	---
Q710	E 190	192	198	190	---	---
	C 173	---	---	---	---	---
	B 203	204	201	199	---	---
Q711	E 190	190	188	190	---	---
	C 173	---	---	---	---	---
	B 204	204	201	199	---	---
Q712	E 190	191	188	190	---	---
	C 173	---	---	---	---	---
	B 204	204	201	199	---	---
Q715	E 171	172	173	159	166	176
	C 173	174	175	60	68	179
	B 171	172	173	59	66	177
Q716	E 171	172	172	59	65	170
	C 173	174	174	59	67	173
	B 170	172	171	58	64	170
Q717	E 175	175	175	164	69	176
	C 177	177	178	165	170	179
	B 175	175	176	163	69	177

FE BOARD IC601 μ PC1394C

BA

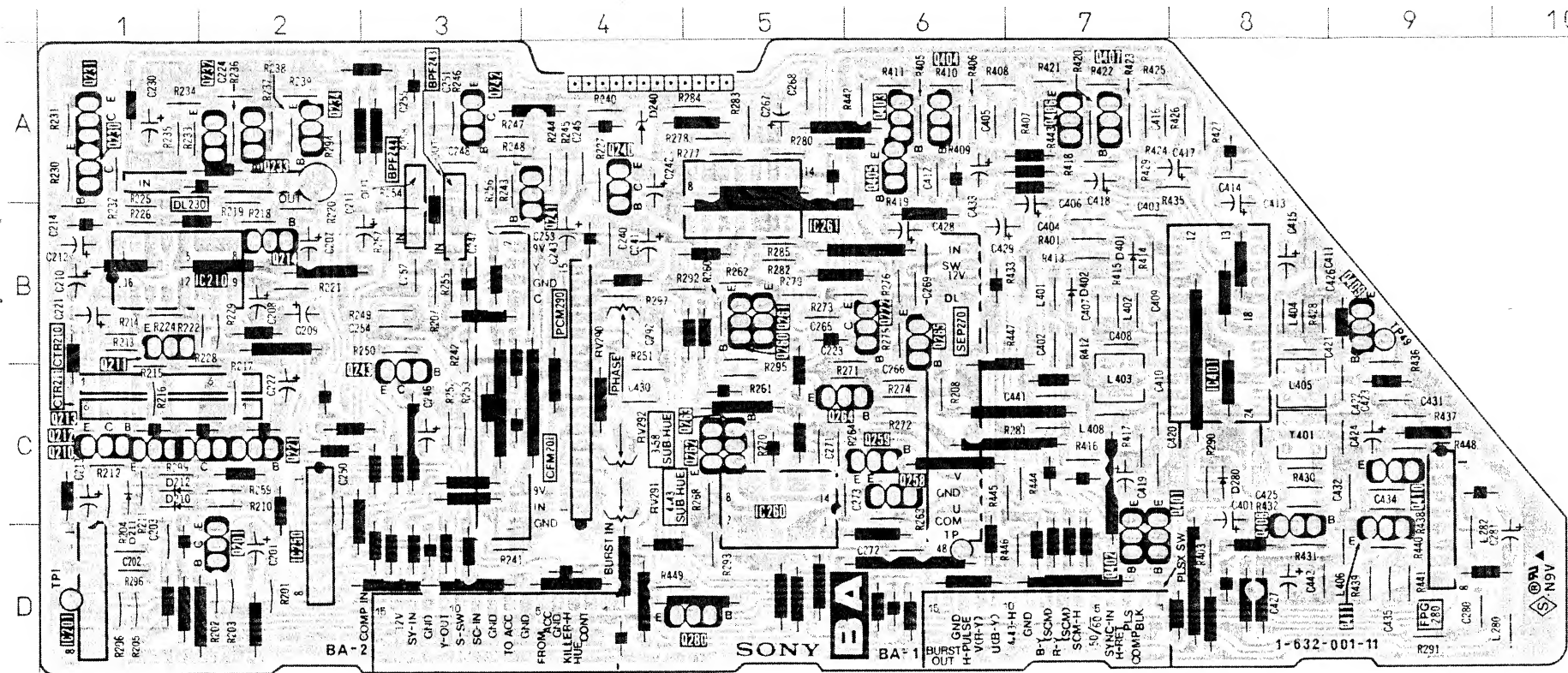
[CHROMA FOR 4 SYSTEM]

J

[POWER SW]

P[FBT G2, 200V RECT,
RELAY DRIVE,
DYNAMIC FOCUS]**H**[TALL LAMP
DGC SWITCH
TRAP SWITCH]

— BA Board —

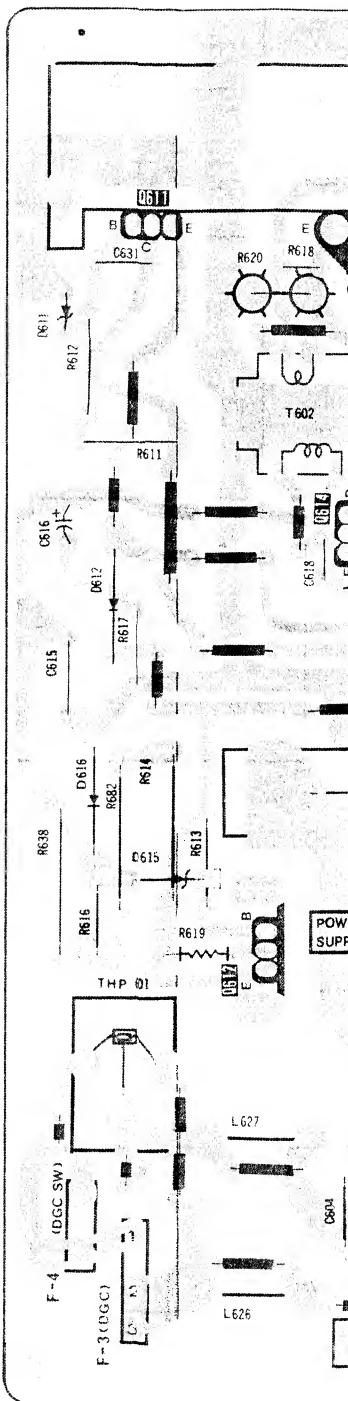


BA Board

IC		DIODE	
IC201	D-1	Q241	A-4
IC210	B-1	Q242	A-3
IC250	D-2	Q243	C-3
IC260	C-5	Q258	C-6
IC261	B-5	Q259	C-6
IC401	B-8	Q260	B-5
		Q261	B-5
		Q262	C-5
		Q263	C-5
		Q264	C-5
		Q265	B-6
		Q280	D-5
		Q401	D-7
		Q402	D-7
		Q403	A-6
		Q404	A-6
		Q405	A-6
		Q406	A-7
		Q407	A-7
		Q408	D-8
		Q409	B-9
		Q410	C-9
		Q411	D-9

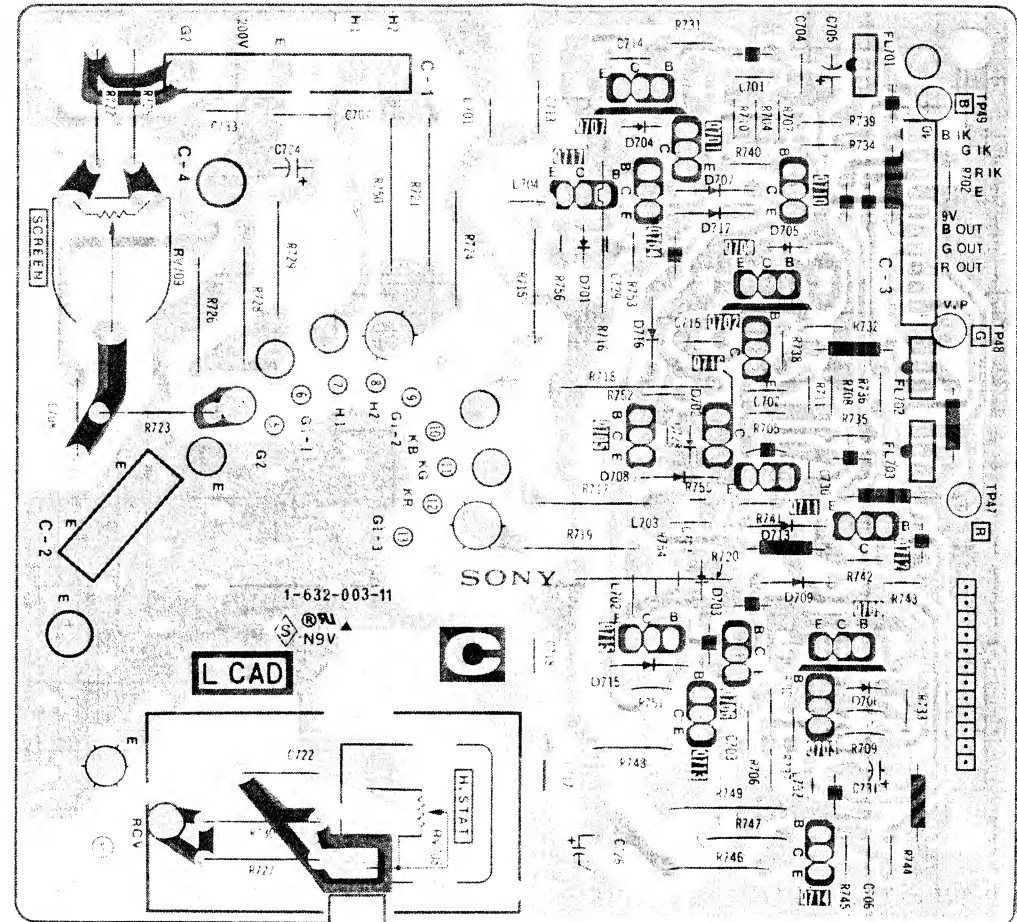
TRANSISTOR		VARIABLE RESISTOR	
Q201	D-2	RV290	B-4
Q210	C-1	RV291	C-4
Q211	B-1	RV292	C-4
Q212	C-1		
Q213	C-1		
Q214	B-2		
Q221	C-2		
Q222	B-6		
Q230	A-1		
Q231	A-1		
Q232	A-2		
Q233	A-2		
Q234	A-2		

— FE Board —

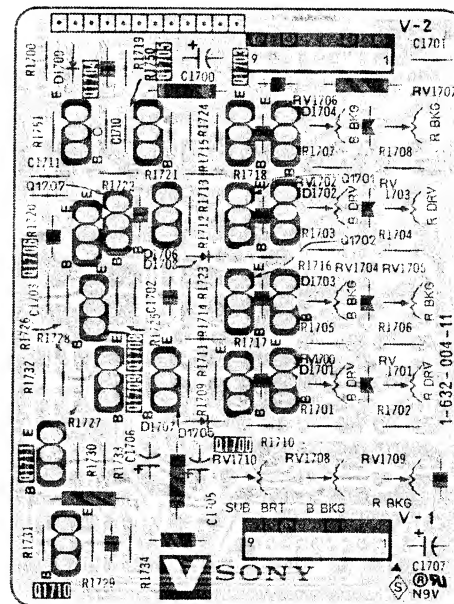


V [WHITE BALANCE]

– C Board –



— V Board —

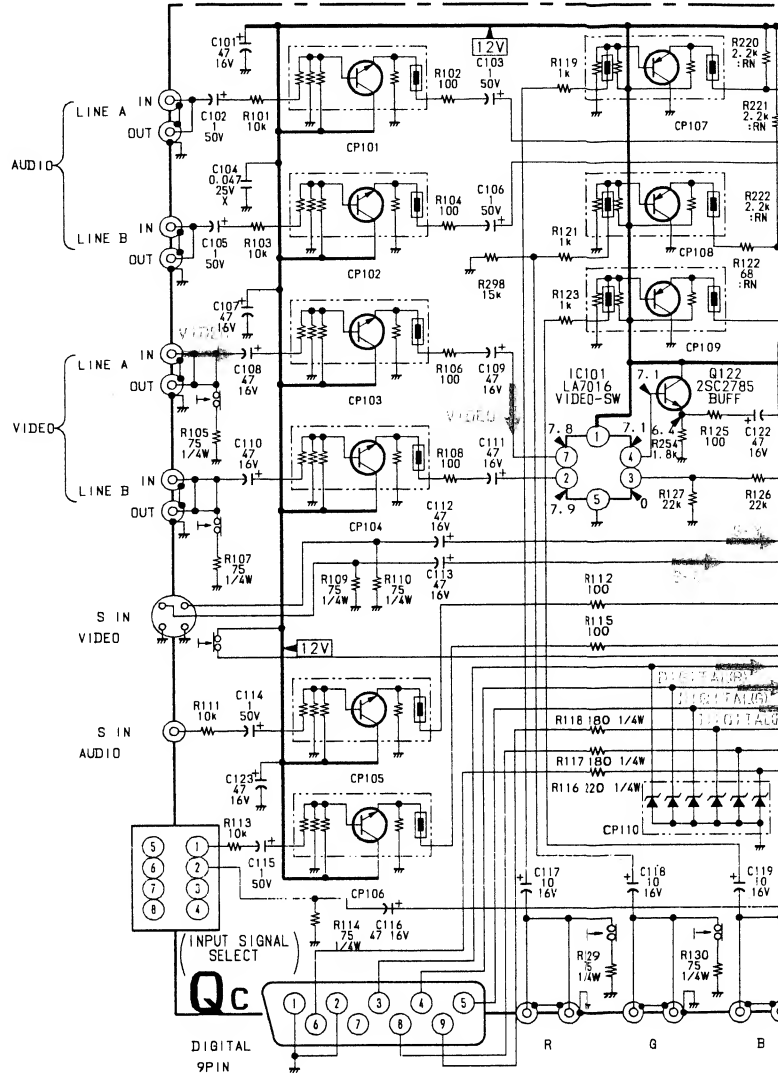
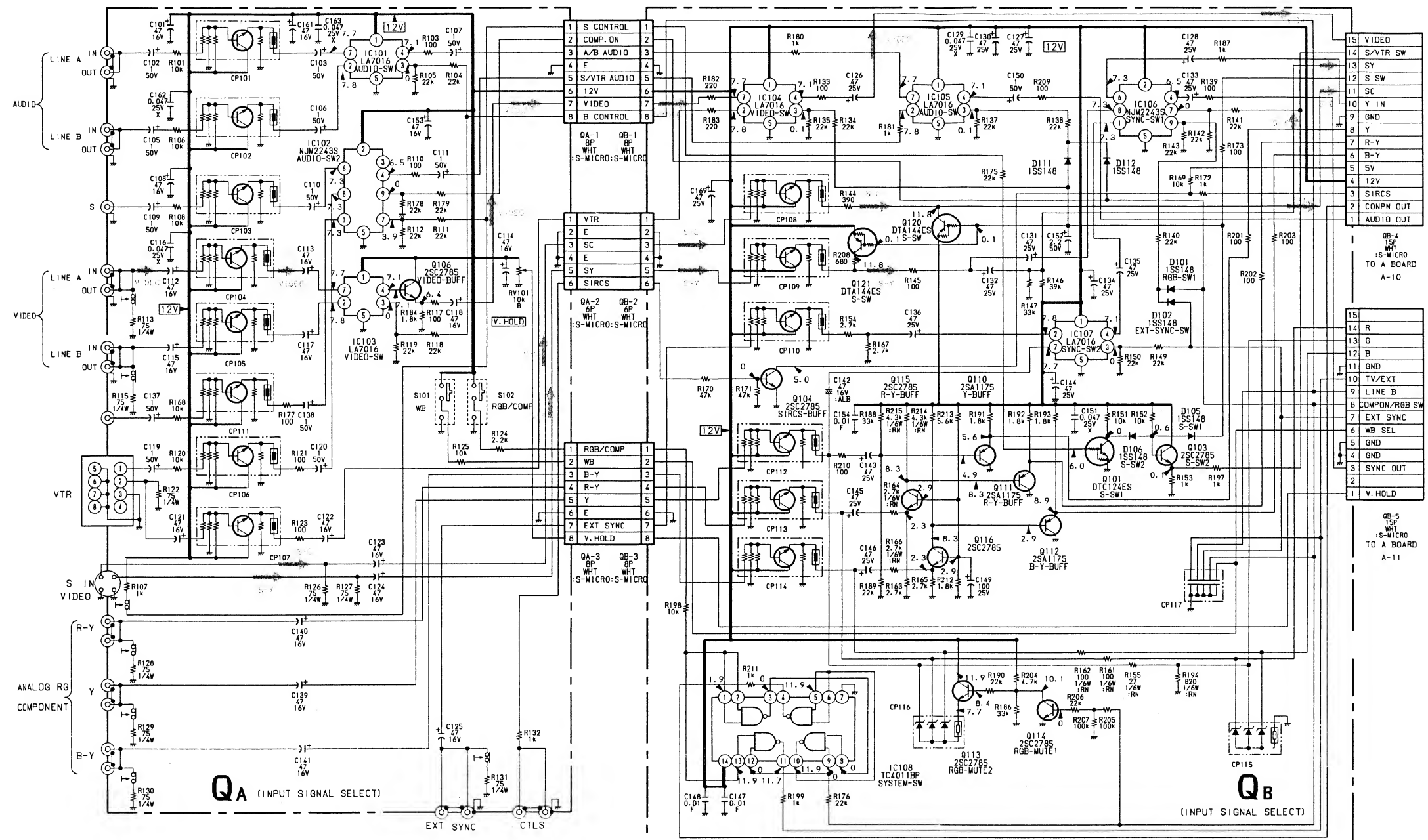


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

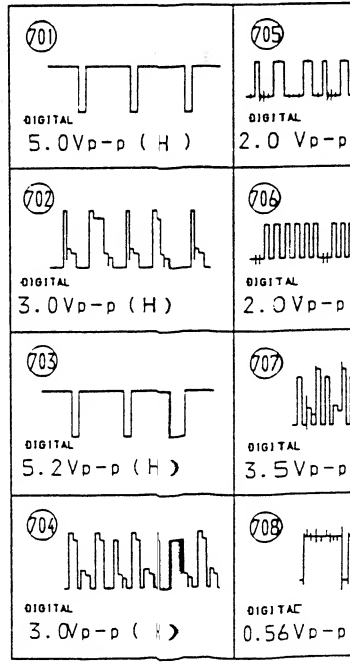
(QA, QB Board: PVM-2044QM)

(QC, QD, QE Board: PVM-2042QM)

A
B
C
D
E
F
G
H
I
J

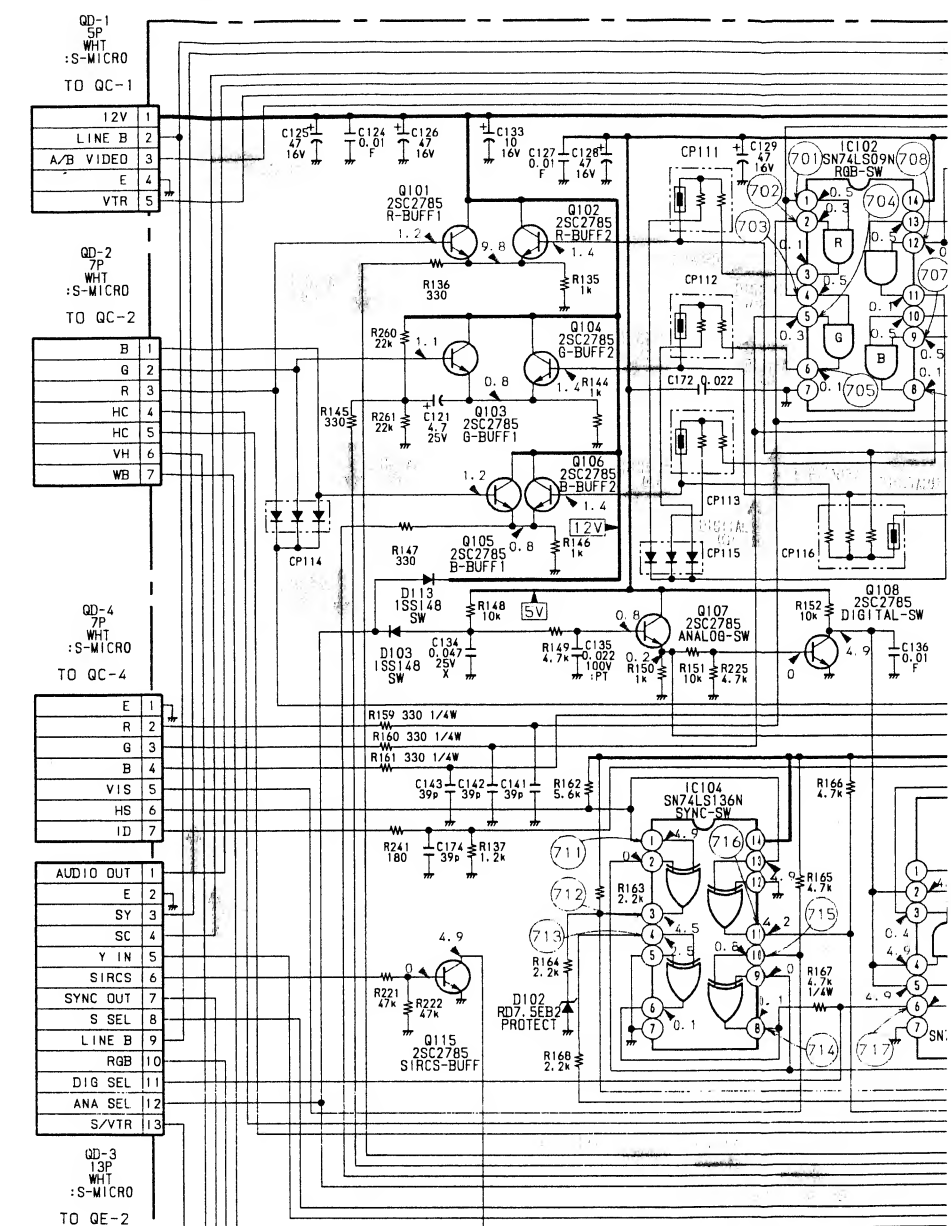
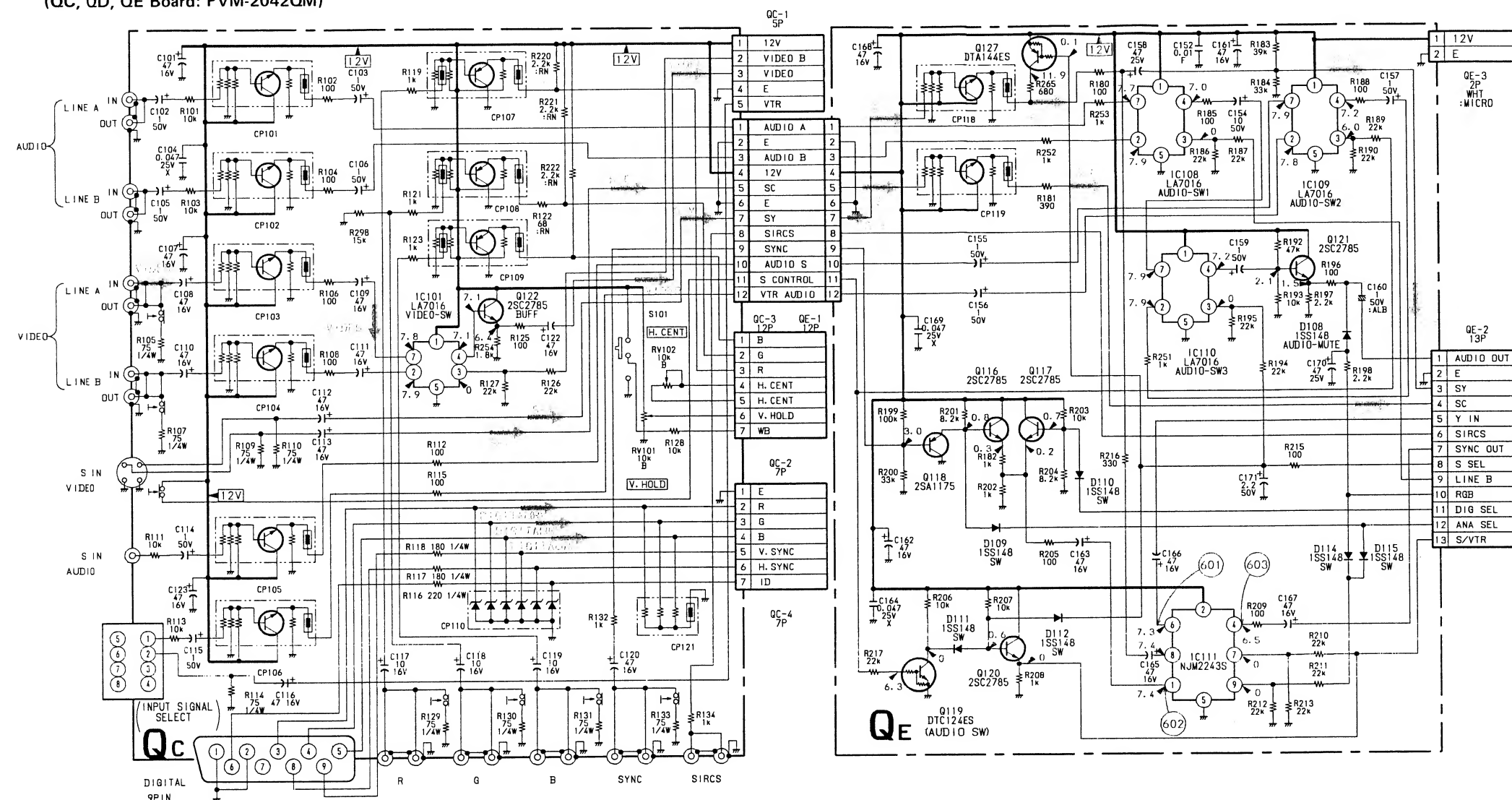


QD BOARD WAVEFORMS

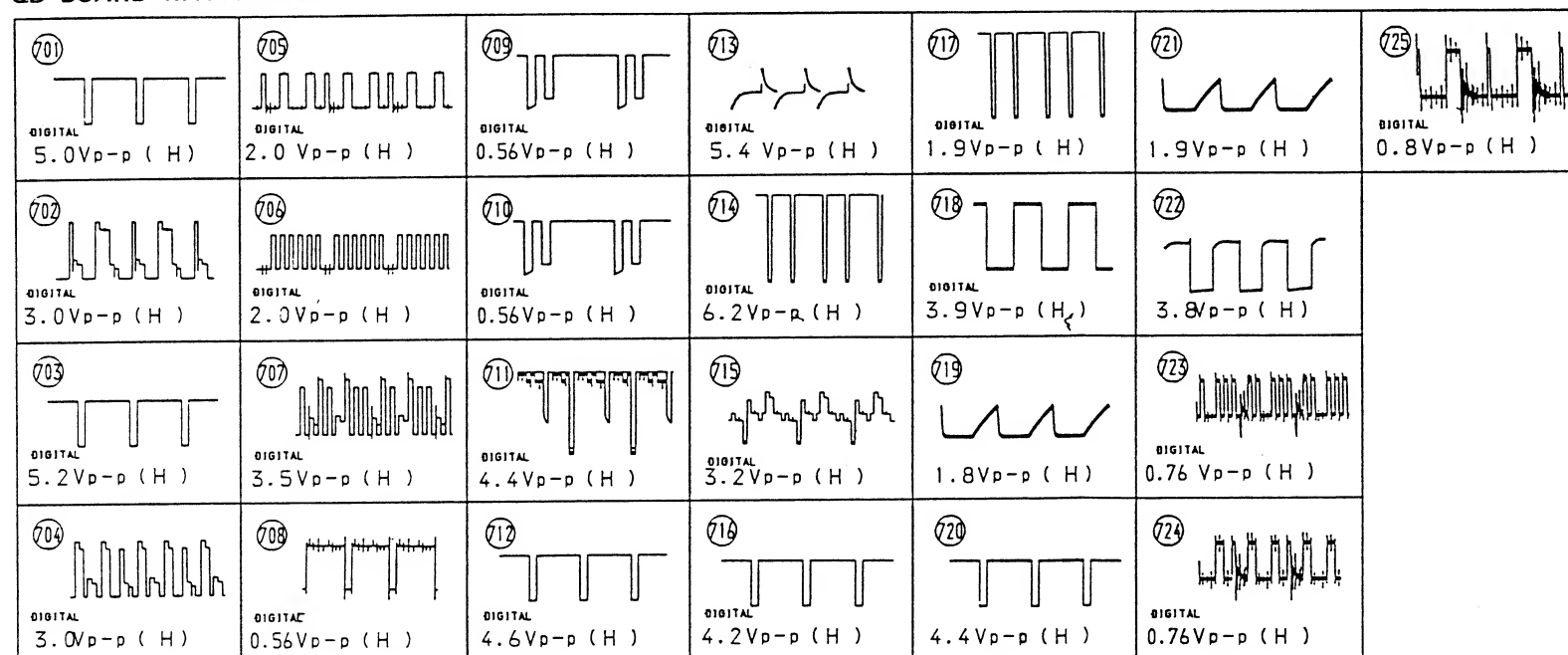


13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

(QC, QD, QE Board: PVM-2042QM)



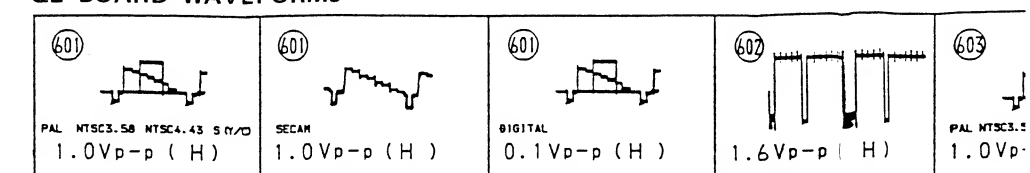
QD BOARD WAVEFORMS

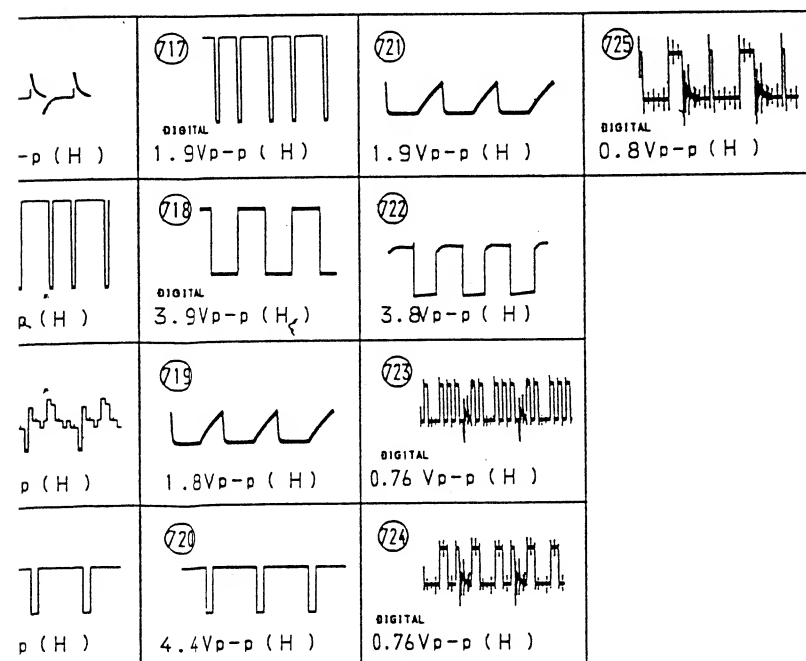
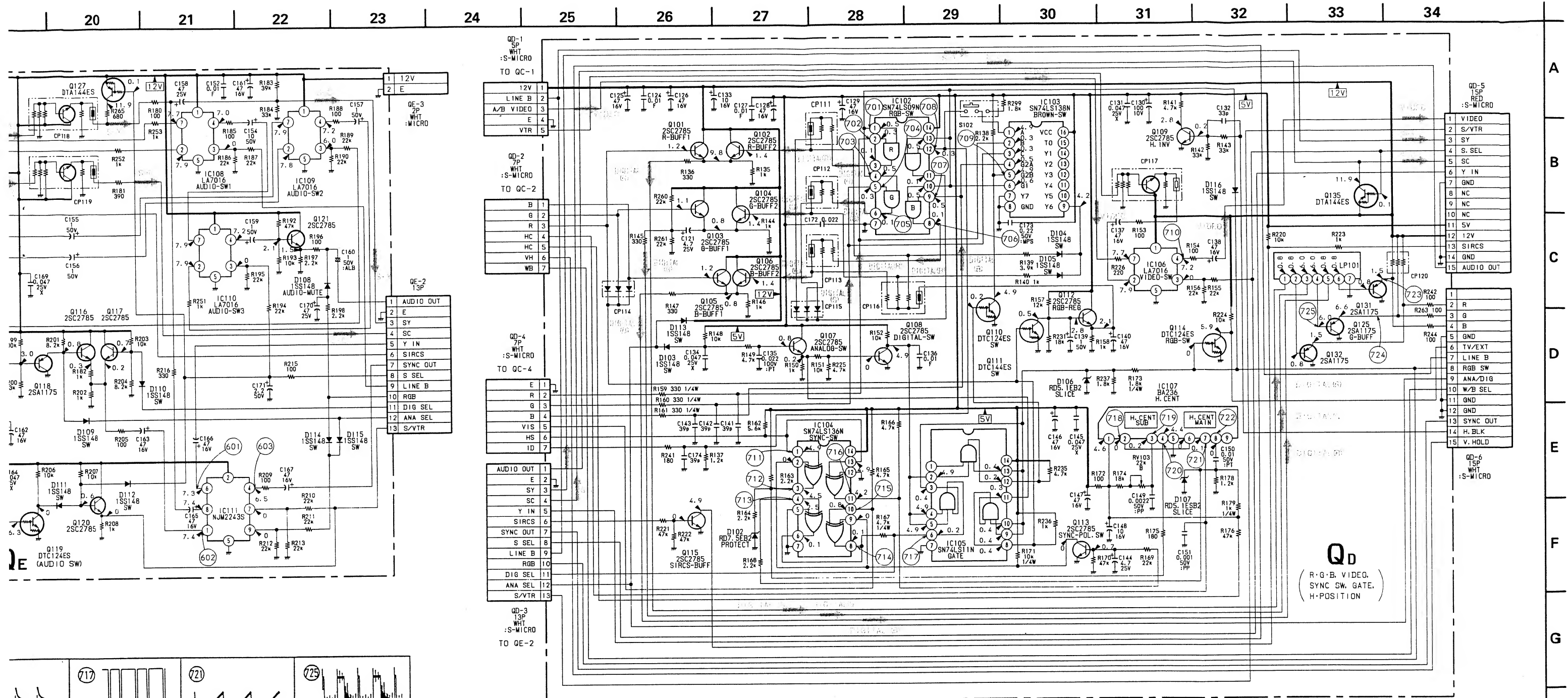


QD BOARD

IC NO.	PIN NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
IC104	(1)	4.8	4.8	4.8	4.8	4.8	4.8
	(2)	4.8	4.8	4.8	4.8	4.8	4.8
	(3)	4.8	4.8	4.8	4.8	4.8	4.8
	(4)	4.8	4.8	4.8	4.8	4.8	4.8
IC105	(1)	4.8	4.8	4.8	4.8	4.8	4.8
	(2)	4.8	4.8	4.8	4.8	4.8	4.8
	(3)	4.8	4.8	4.8	4.8	4.8	4.8
	(4)	4.8	4.8	4.8	4.8	4.8	4.8
IC106	(1)	4.8	4.8	4.8	4.8	4.8	4.8
	(2)	4.8	4.8	4.8	4.8	4.8	4.8
	(3)	4.8	4.8	4.8	4.8	4.8	4.8
	(4)	4.8	4.8	4.8	4.8	4.8	4.8
IC107	(1)	4.8	4.8	4.8	4.8	4.8	4.8
	(2)	4.8	4.8	4.8	4.8	4.8	4.8
	(3)	4.8	4.8	4.8	4.8	4.8	4.8
	(4)	4.8	4.8	4.8	4.8	4.8	4.8

QE BOARD WAVEFORMS



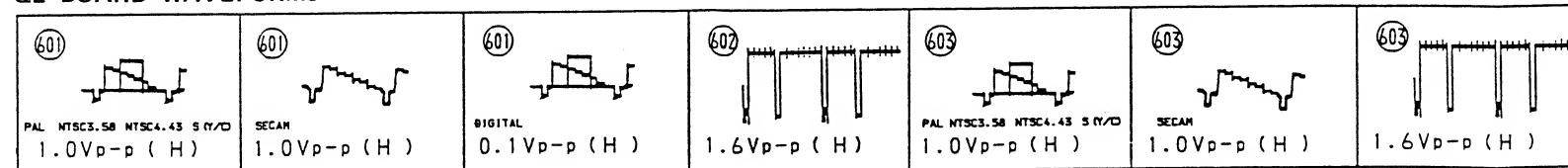


QD BOARD

IC-NO.	PIN-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
IC104	(1)	4.8	4.8	4.9	4.8	4.4	4.2
	(2)	4.4	4.4	4.5	4.4	4.1	4.2
	(3)	0.1	0.1	0.1	0.1	0.2	4.1
	(4)	0.8	0.8	0.8	0.8	3.2	2.4
IC105	(1)	4.1	4.1	4.2	4.1	3.8	3.9
	(2)	4.8	4.8	4.9	4.8	4.4	4.1
	(3)	0.4	0.4	0.4	0.4	0.4	4.5
	(4)	0.2	0.2	0.2	0.2	0.2	4.6
IC106	(1)	0.4	0.4	0.4	0.4	0.4	4.5
	(2)	0.4	0.4	0.4	0.4	0.4	4.5
	(3)	0.2	0.2	0.2	0.2	0.2	0.7
	(4)	4.4	4.4	4.4	4.4	4.1	4.1
IC107	(1)	0.1	0.1	0.1	0.1	0.6	0.6
	(2)	0.1	0.1	0.1	0.1	0.6	0.6
	(3)	0.1	0.1	0.1	0.1	0.6	0.6
	(4)	0.1	0.1	0.1	0.1	1.6	1.6

Q-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
Q105	(1)	0.8	0.8	0.8	0.8	1.0
	(2)	1.1	1.1	1.2	1.1	1.2
	(3)	0.8	0.8	0.8	0.8	1.0
	(4)	1.4	1.4	1.4	1.4	1.6
Q106	(1)	0.5	0.5	0.5	0.5	0.5
	(2)	0.5	0.5	0.5	0.5	0.5
	(3)	0.5	0.5	0.5	0.5	0.5
	(4)	0.4	0.4	0.4	0.4	0.5

QE BOARD WAVEFORMS



QA [INPUT
SIGNAL SELECT]

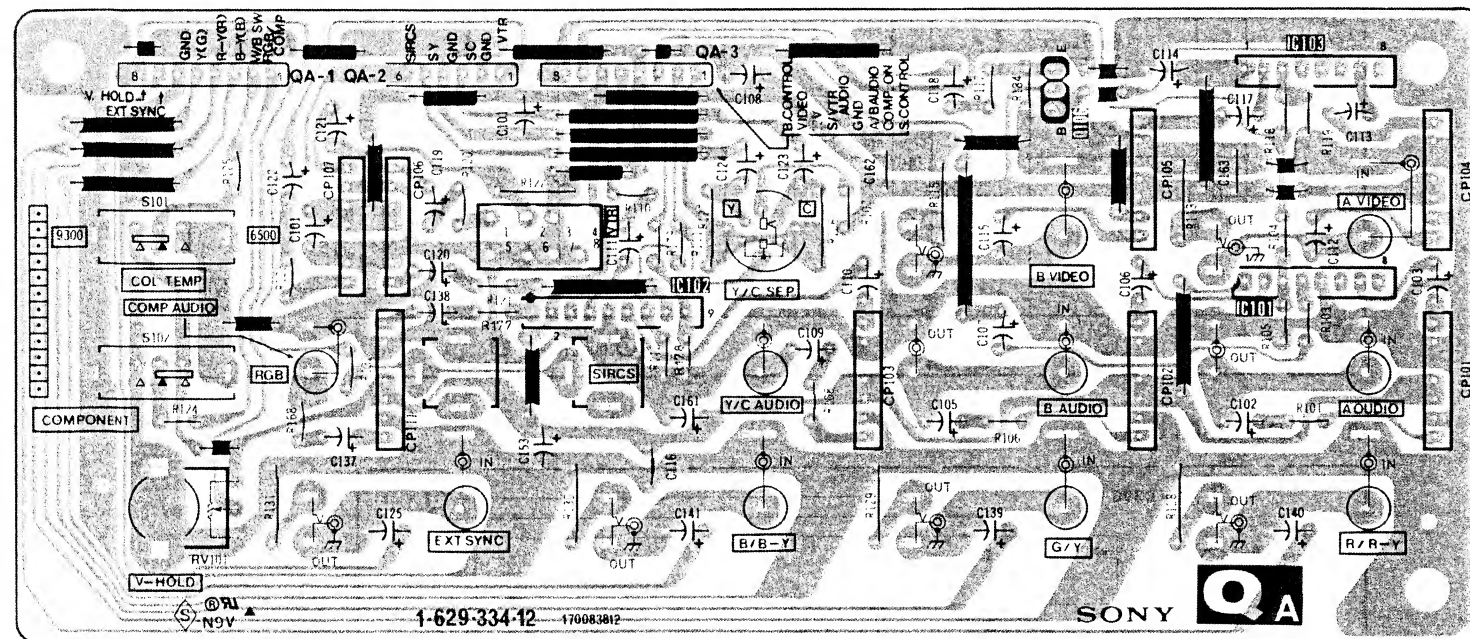
Q_B	[INPUT SIGNAL SELECT, SYSTEM SW]
----------------------	-------------------------------------

Qc [INPUT SIGNAL SELECT]

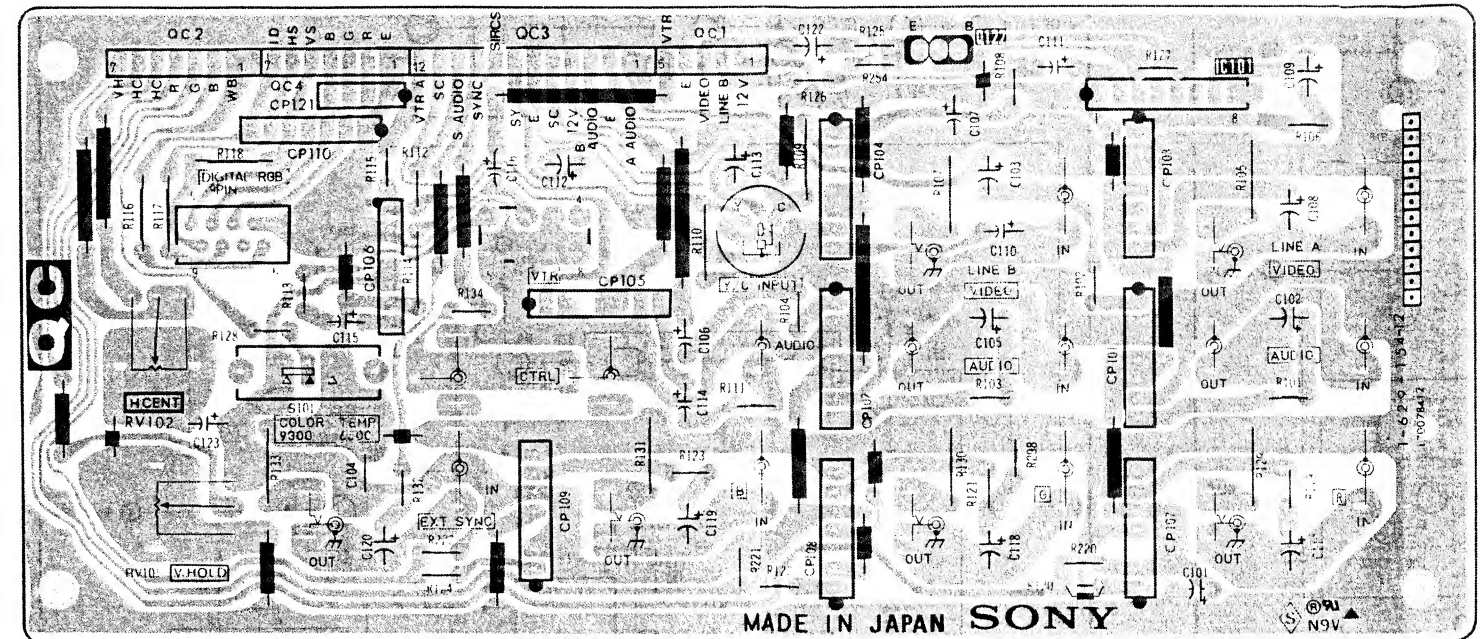
QD [R·G·B, VIDEO, SYNC SW]
[GATE, H·POSITION]

QE [AUDIO SW]

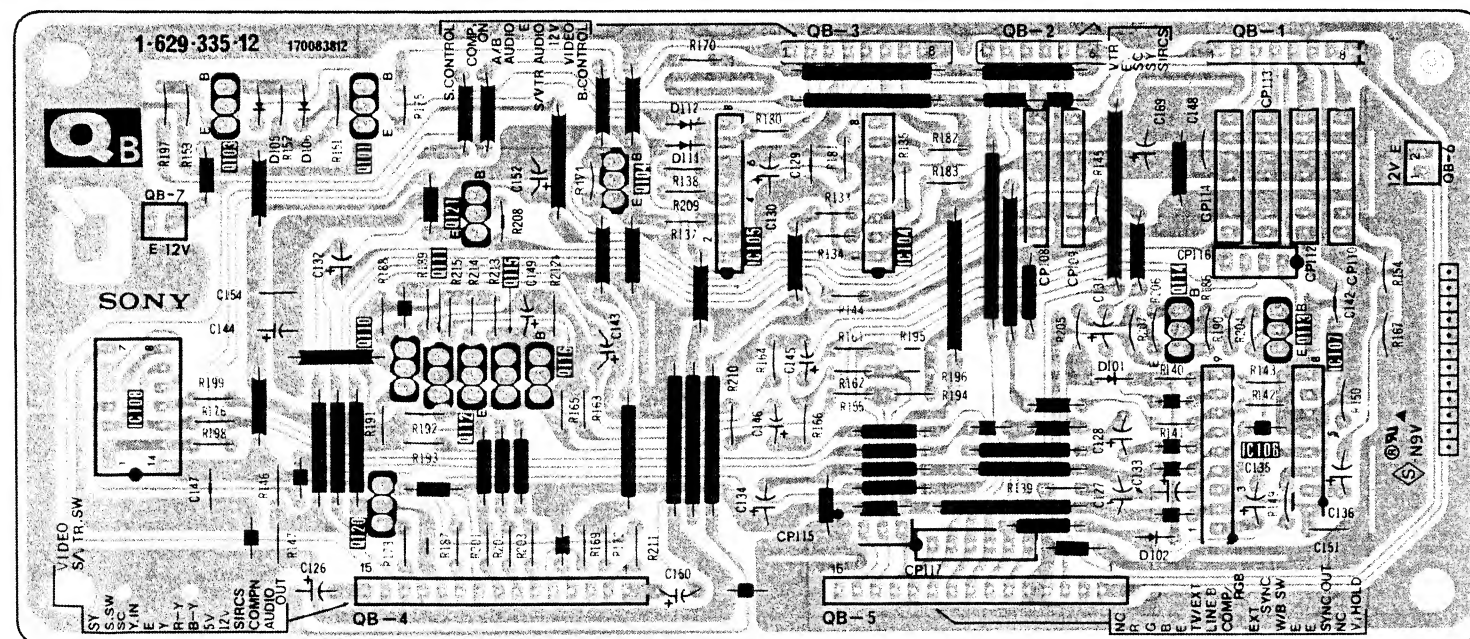
— QA Board — (PVM-2044QM)



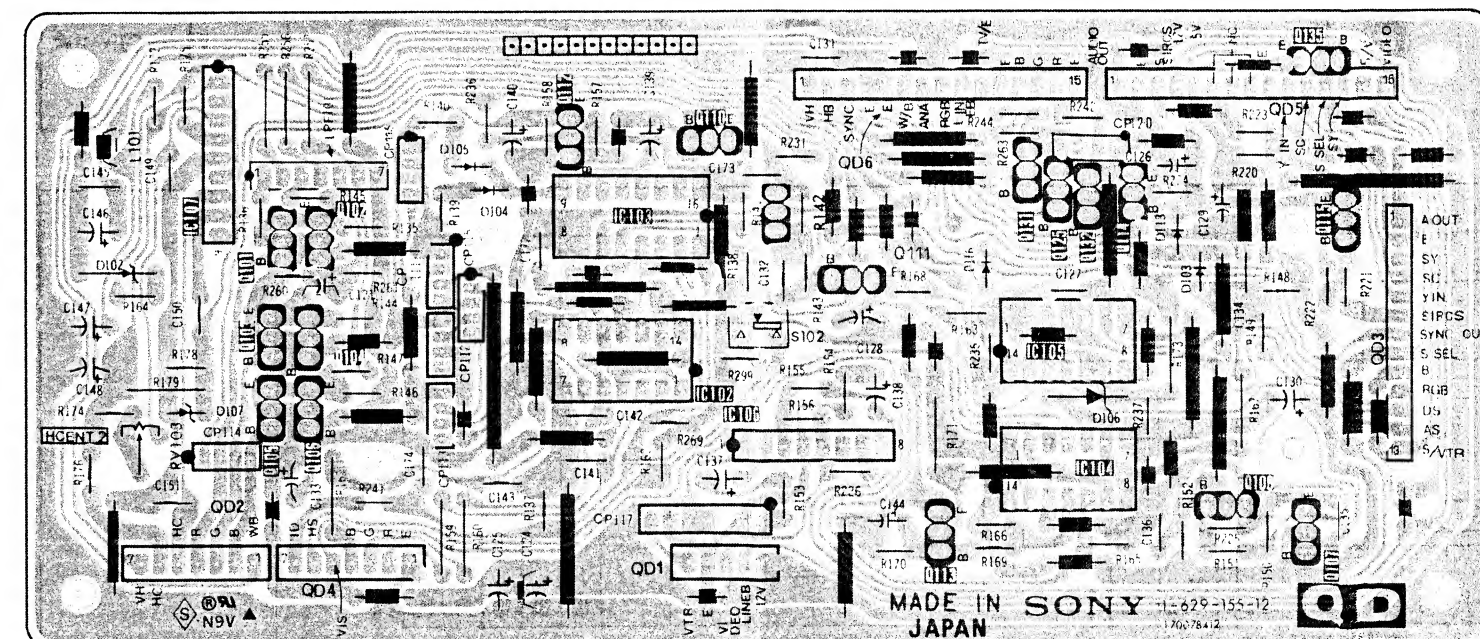
– QC Board –(RVM-2042QM)



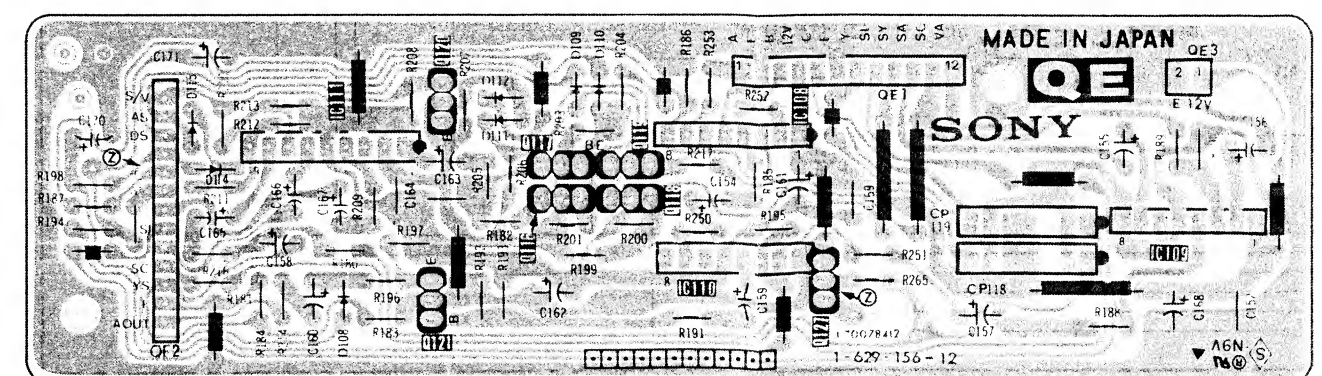
– QB Board – (PVM-2044QM)



– QD Board – (PVM-2042QM)

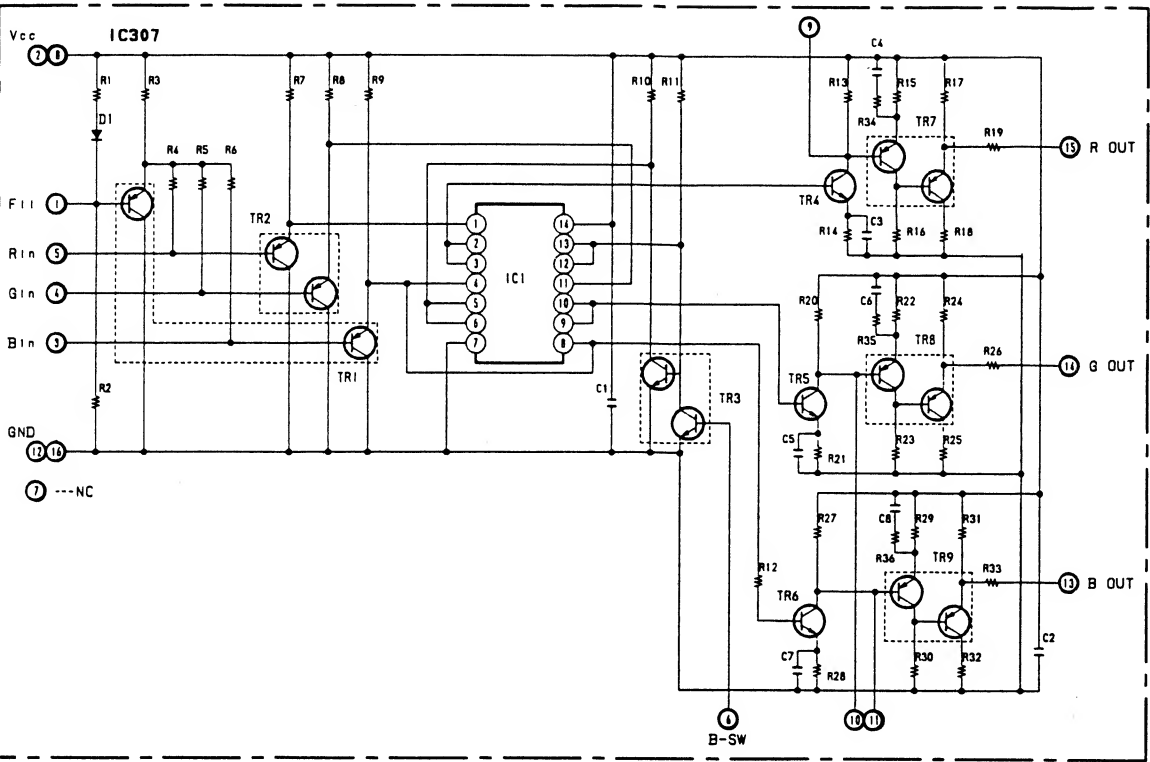


– QE Board – (PVM-2042QM)

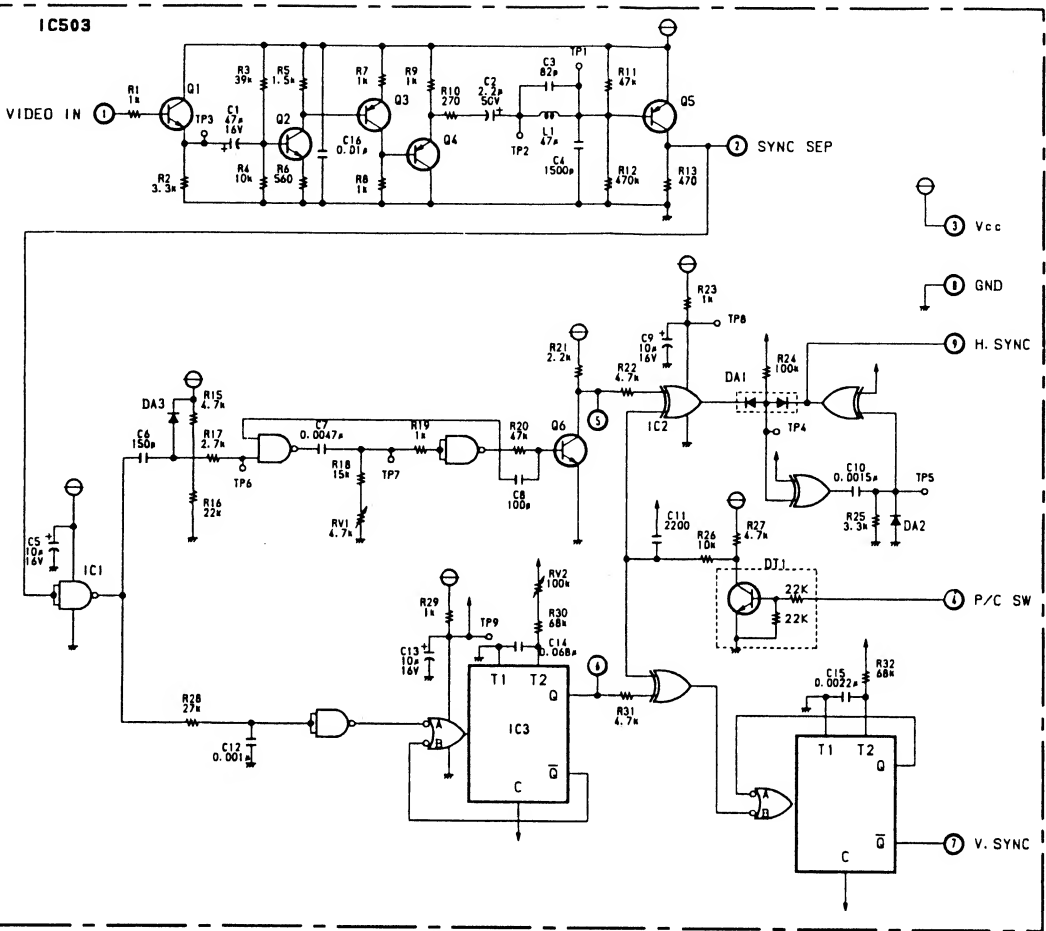


QE [AUDIO SW]

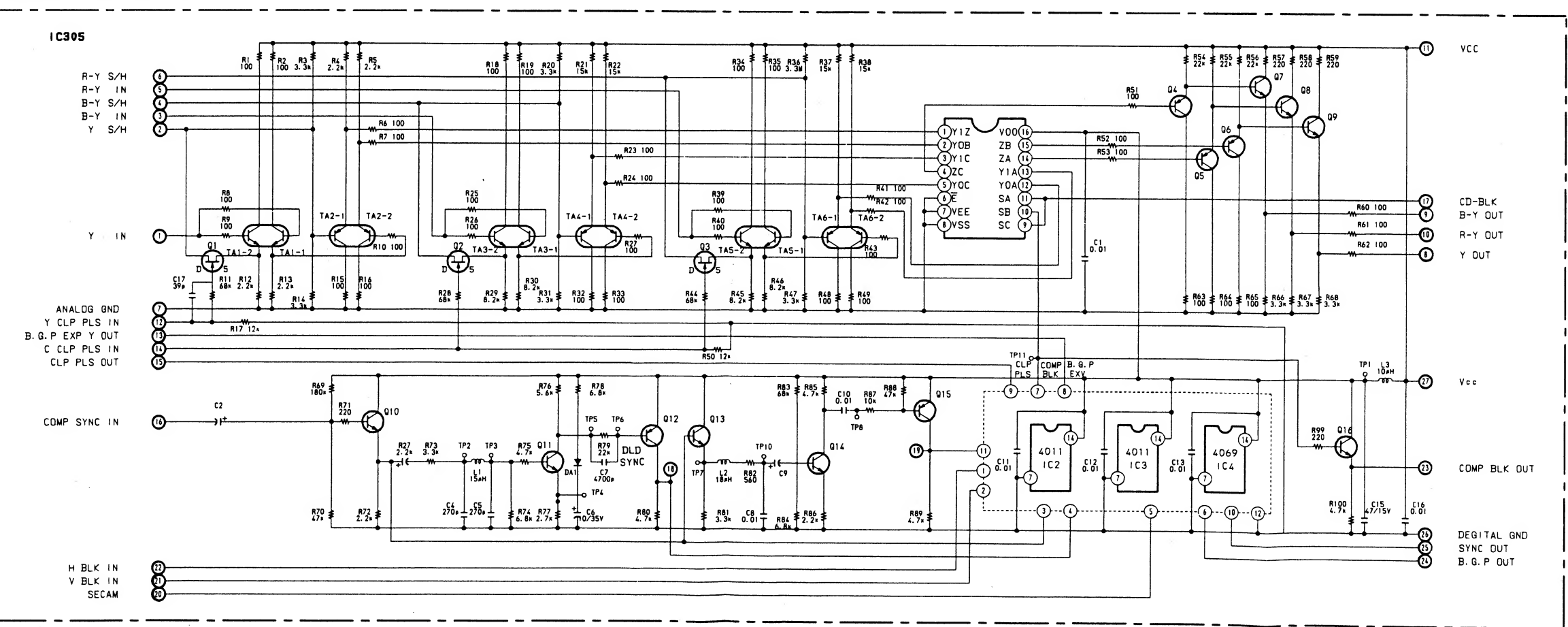
A BOARD IC307 BOM-1



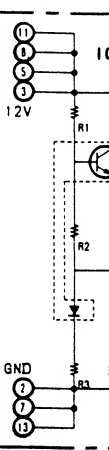
A BOARD IC503 BX7574



A BOAED IC305 BX-7573



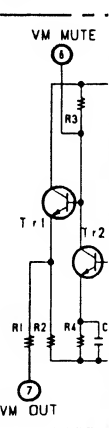
A BOARD



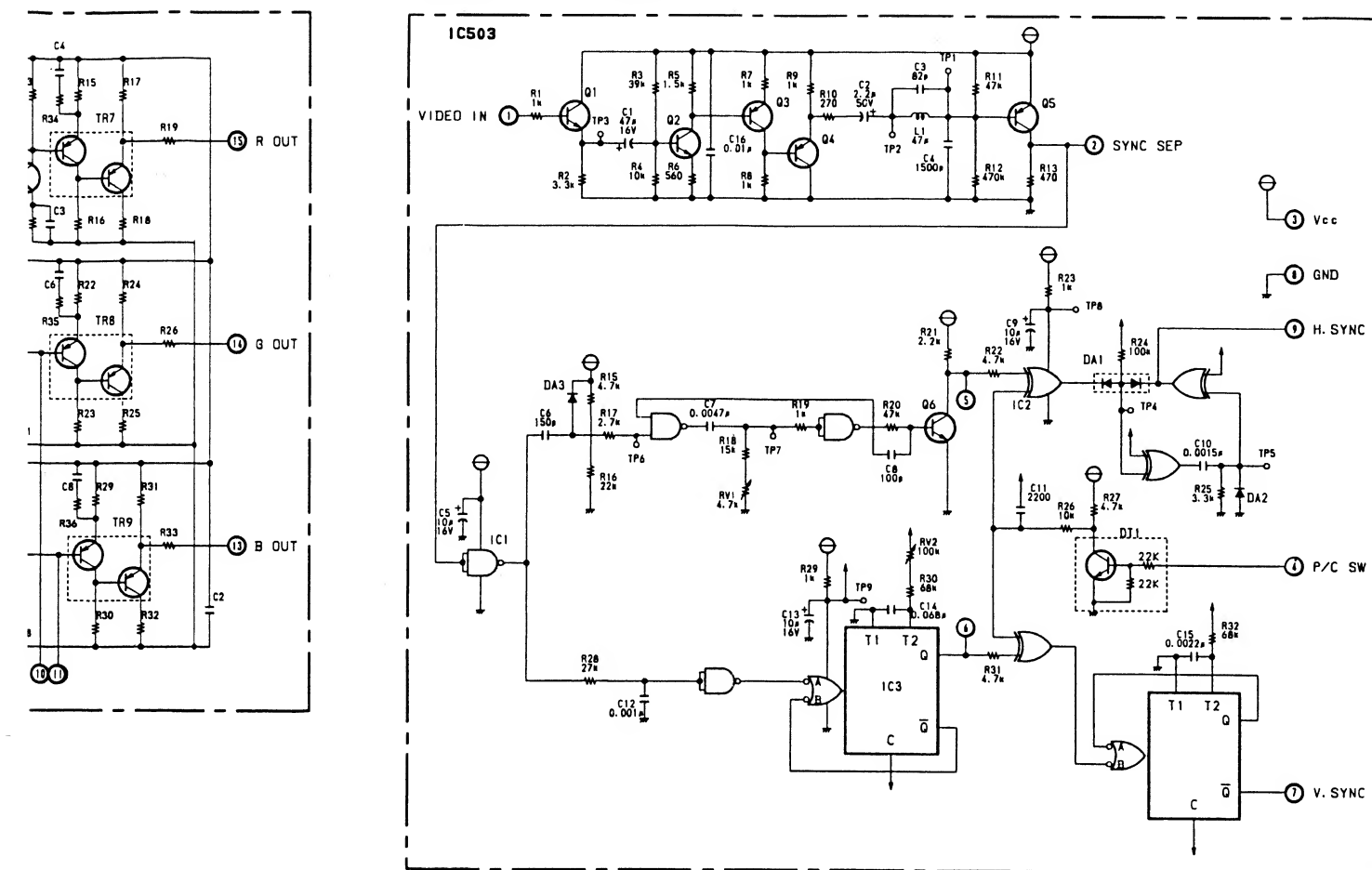
A BOARD



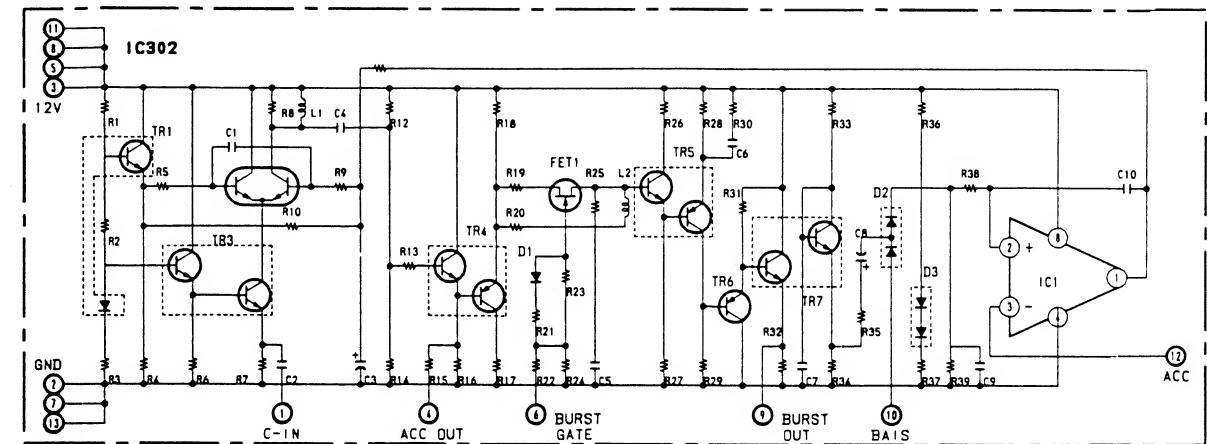
A BOARD



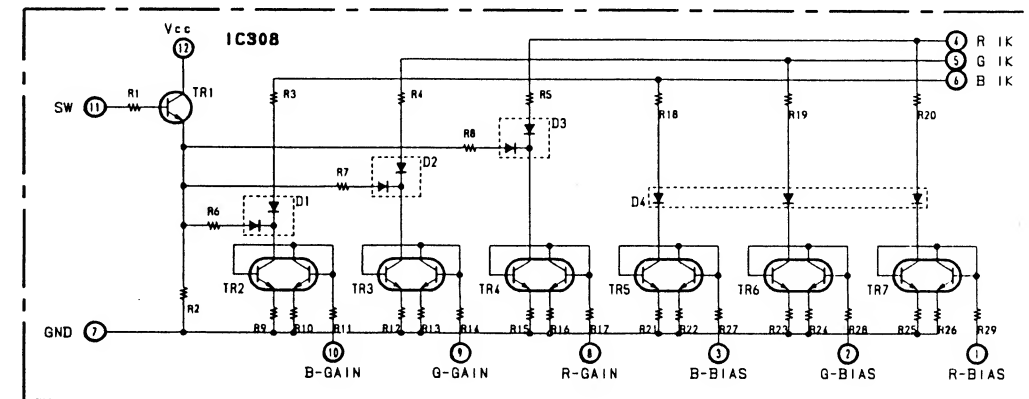
A BOARD IC503 BX7574



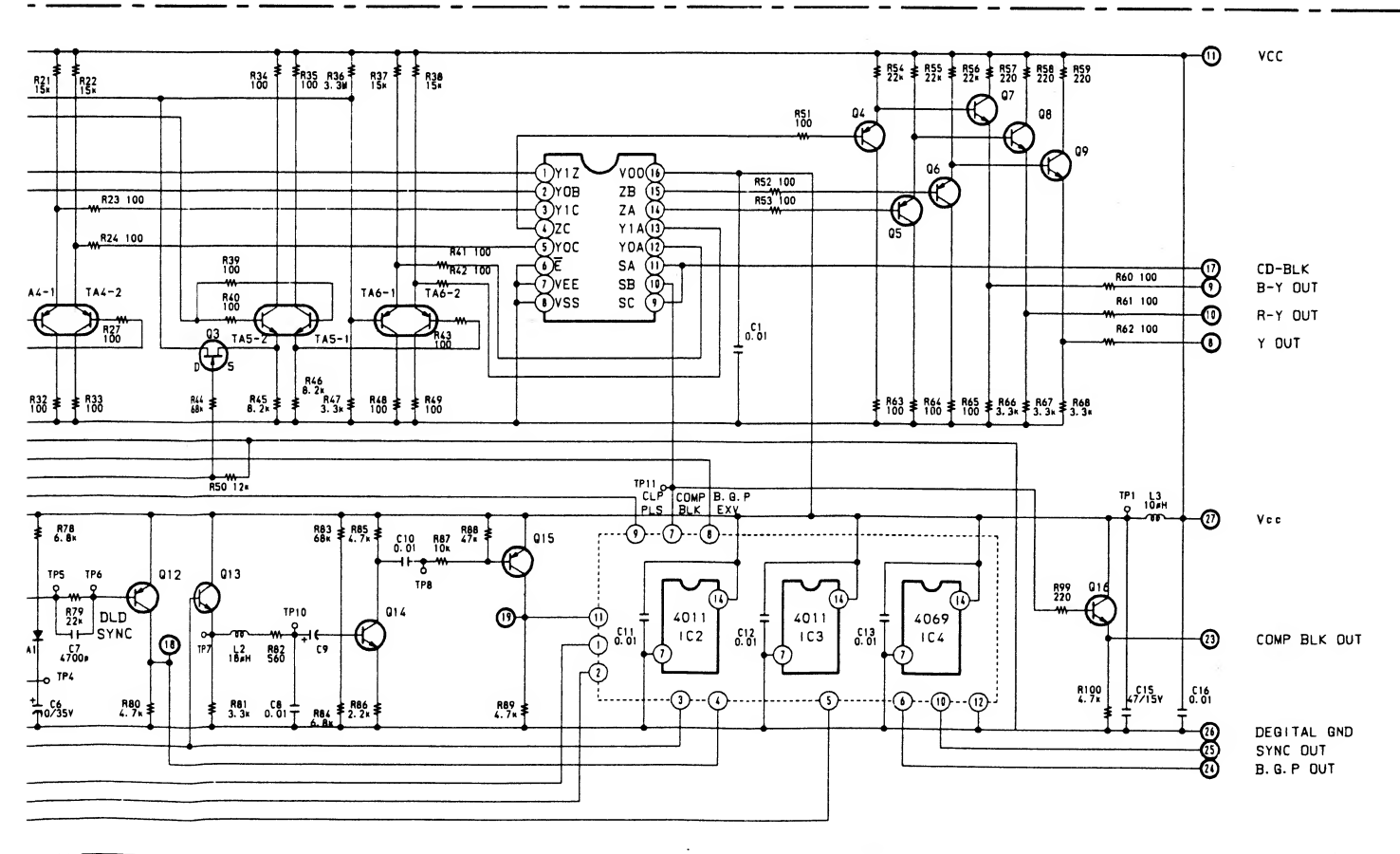
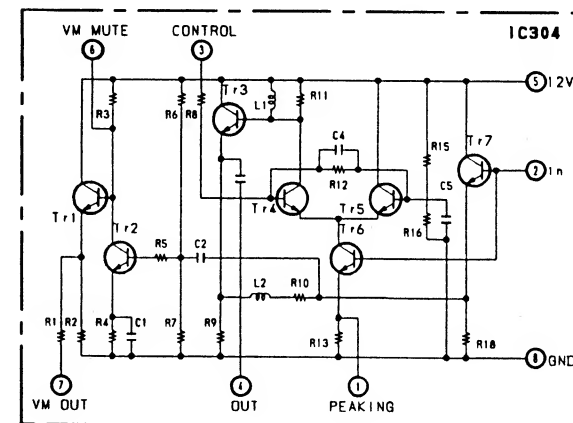
A BOARD IC302 ACC-1



A BOARD IC308 GBM-1

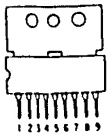


A BOARD IC304

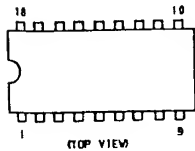


6-6. SEMICONDUCTORS

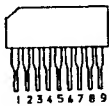
AN5265



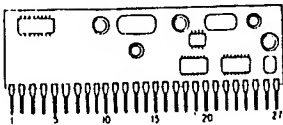
AN5613



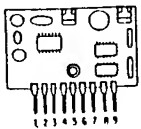
BA236
NJM22435



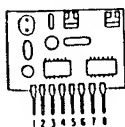
BX7573



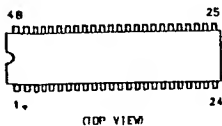
BX7574



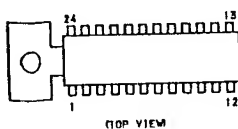
BX7595



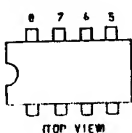
CXA1024S



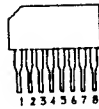
CX175



CX-23025
1R9431
μPC358C
μPC4558C



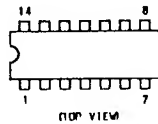
LA7016



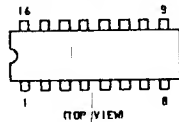
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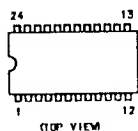
SN74LS09N
SN74LS11N
SN74LS136N
TC4066BP
μPC1394C



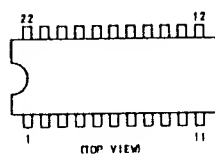
SN74LS138N
TC4052BP
TC4053BP
TC4538BP



TA7193P



μPC1377C



DTA124ES
DTA144ES
DTC124ES
DTC144ES



2SA1091
2SC1890A
2SC2551



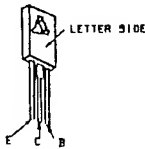
2SA1175
2SA1175-HFE
2SC2785
2SC2785-HFE



2SA1220A
2SD1134



2SA1220A-P
2SC2611
2SC2688
2SC2690A



2SC3460
2SD1397



2SC2958
2SD773-4
2SD774



2SK105A-30



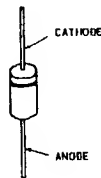
DAN209S



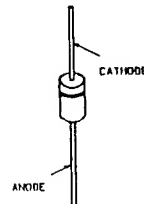
DAP209S



ERB44-06
ERD28-08S
GP080PKG23
RD110EB
RGP01-17PKG23
RGP10DT
RGP15J
10E2
10ES-B1
1SS83

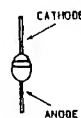


ERC25-06S
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RH-1Z
RU2AM
S1B01-02
S1B01-04
S1B01-06

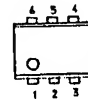


ERC26-15S

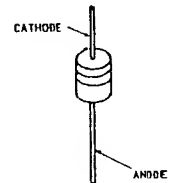
V19E



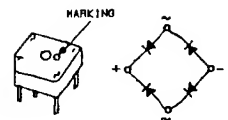
PC111S



RD10ES-B1
RD10ES-B3
RD10ES-L3
RD12ES-B2
RD13ES-B2
RD13ES-B3
RD15ES-B2
RD18ES-B2
RD24EB27
RD39ES-B4
RD4.3ES-L2
RD5.1EB2
RD5.1ES-B2
RD5.6ES-B2
RD5.6ES-L1
RD6.2ES-B2
RD6.8ES-B2
RD7.5ES-B2
RD8.2ES-B2
1SS148



S3WB60Z



SECTION 7

EXPLODED VIEWS

NOTE:

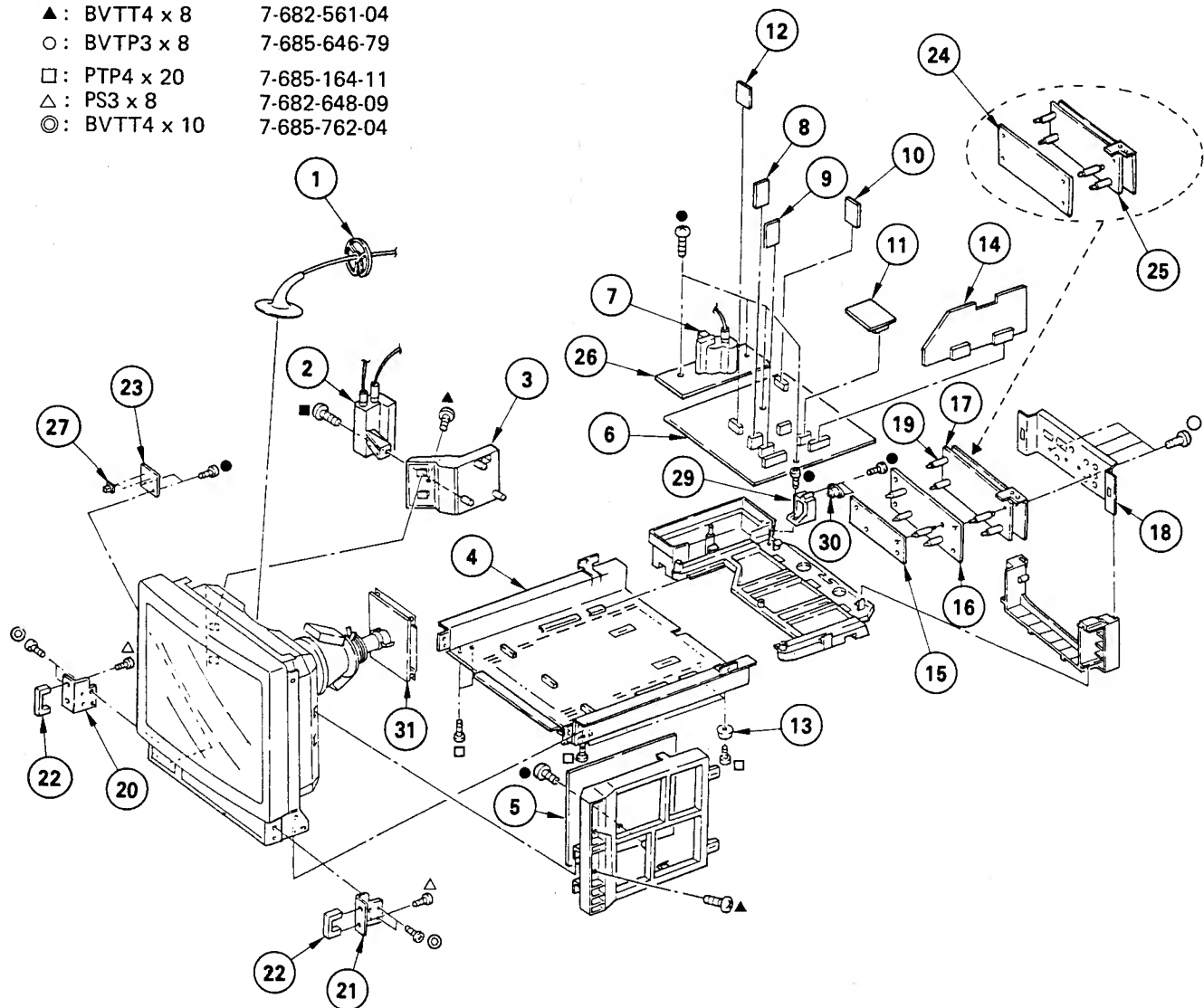
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety.
Replace only with part number specified.

7-1. CHASSIS

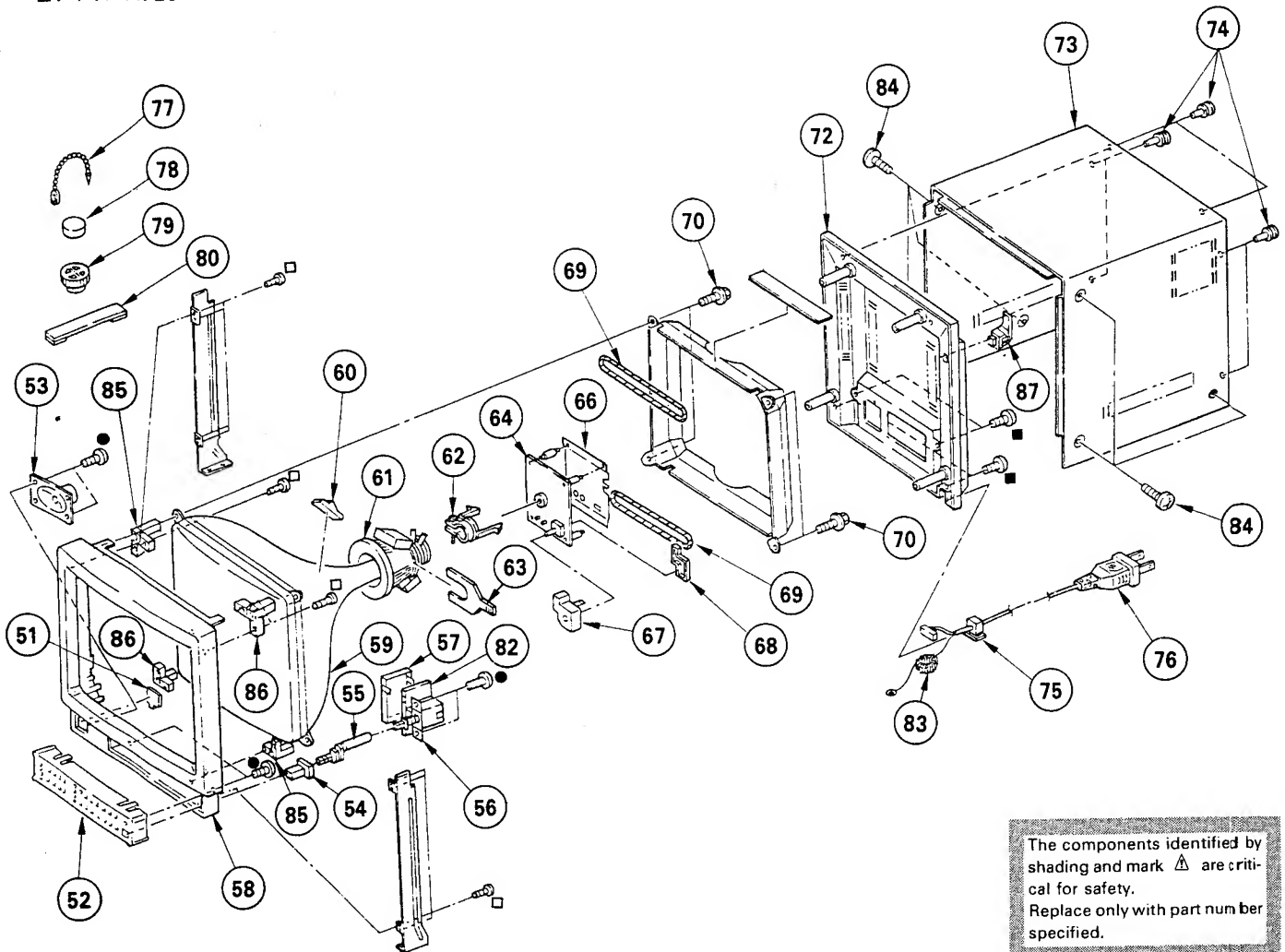
●: BVTP3 x 12	7-685-648-79
■: BVTP4 x 16	7-685-663-79
▲: BVTT4 x 8	7-682-561-04
○: BVTP3 x 8	7-685-646-79
□: PTP4 x 20	7-685-164-11
△: PS3 x 8	7-682-648-09
◎: BVTT4 x 10	7-685-762-04



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*3-704-372-01	HOLDER, HV CABLE		16	*A-1270-248-A	QD BOARD, COMPLETE (PVM-2042QM ONLY)	
2 ▲	.1-237-614-12	RESISTOR ASSY, HIGH-VOLTAGE		17	*A-1270-247-A	QC BOARD, COMPLETE (PVM-2042QM ONLY)	
3	*4-391-842-01	BRACKET, HVR		18	4-391-843-01	PLATE, TERMINAL (PVM-2042QM ONLY)	
4	X-4391-818-1	CABINET ASSY, BOTTOM			4-391-843-11	PLATE, TERMINAL (PVM-2042QM ONLY)	
5	*A-1245-479-A	FE BOARD, COMPLETE		19	*3-682-419-01	HOLDER, P.C.B. (PVM-2042QM ONLY)	
6	*A-1296-593-A	A BOARD, COMPLETE		20	*4-393-373-01	BRACKET (LEFT), HANDLE	
7 ▲	.1-439-468-11	TRANSFORMER ASSY, FLYBACK (NX-2310)	8,9	21	*4-393-372-01	BRACKET (RIGHT), HANDLE	
8	*1-629-149-11	W BOARD		22	4-382-597-91	HANDLE	
9	*1-629-151-11	XA BOARD		23	*1-632-005-11	H BOARD	
10	*1-632-006-11	Y BOARD		24	*A-1270-246-A	QB BOARD, COMPLETE (PVM-2044QM ONLY)	
11	*1-632-004-11	V BOARD		25	*A-1270-245-A	QA BOARD, COMPLETE (PVM-2044QM ONLY)	
12	*1-632-007-11	T BOARD		26	*1-632-002-11	P BOARD	
13	4-901-947-01	LEG		27	4-374-839-01	BUTTON (A)	
14	*A-1135-613-A	BA BOARD, COMPLETE (PVM-2042QM ONLY)	10-12,26,31	29	4-393-343-01	HOLDER, CONNECTOR (PVM-2044QM ONLY)	
	*A-1135-614-A	BA BOARD, COMPLETE (PVM-2044QM ONLY)	10-12,26,31	30	1-509-718-00	DIN 4P SOCKET (PVM-2044QM ONLY)	
15	*A-1270-249-A	QE BOARD, COMPLETE (PVM-2042QM ONLY)		31	*A-1331-036-A	C BOARD, COMPLETE	

7-2. PICTURE TUBE

- : BVTP3 x 12 7-685-648-79
- : BVTP4 x 16 7-685-663-79
- : PTP4 x 20 7-685-164-11




REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	4-393-331-01	COVER, LAMP, TALLY (PVM-2044QM ONLY)		70	4-307-249-00	SCREW (5), TAPPING	
52	1-466-076-11	CONTROL UNIT (PVM-2042QM ONLY)		72	4-393-309-11	COVER, REAR (PVM-2042QM ONLY)	
	1-466-198-11	CONTROL UNIT (PVM-2044QM ONLY)			4-393-309-01	COVER, REAR (PVM-2044QM ONLY)	
53	1-544-063-11	SPEAKER		73	4-393-344-01	COVER, TOP	
54	4-374-839-11	BUTTON (A)		74	4-391-825-01	RIVET, NYLON	
55	4-391-824-01	JOINT		75 Δ	*4-364-745-01	BUSHING, AC CORD	
56 Δ	1-554-967-12	SWITCH, PUSH (AC POWER) (1 KEY)		76 Δ	1-574-389-12	CORD, POWER (WITH CONNECTOR)	
57	*4-391-820-01	COVER, AC SWITCH		77	4-308-870-00	CLIP, LEAD WIRE	
58	X-4391-817-1	BEZEL ASSY (PVM-2042QM ONLY)	51	78	1-452-032-00	MAGNET, DISK; 10MM φ	
	X-4391-813-1	BEZEL ASSY (PVM-2044QM ONLY)		79	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ	
59 Δ	8-736-122-05	PICTURE TUBE (M49KGH21X)		80	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
60	3-703-961-01	SPACER, DY		82	*1-629-153-11	J BOARD	
61 Δ	1-451-349-11	DEFLECTION YOKE (Y20FZA)		83	1-543-604-11	CORE, RING	
62	*4-382-050-01	BAND, C PC BOARD		84	4-847-802-11	SCREW (OS), CASE, CLAW	
63	1-452-277-00	MAGNET, BMC		85	4-393-334-01	BRACKET (B), PICTURE TUBE	
64	*A-1331-036-A	C BOARD, COMPLETE		86	4-393-333-01	BRACKET (A), PICTURE TUBE	
66	*4-391-835-01	PLATE (C), SHIELD (PVM-2042QM ONLY)		87	4-329-439-00	CLAMPER, FEEDER	
67	*4-379-167-01	COVER (MAIN), CV					
68	*4-379-160-01	COVER (REAR LID), CV					
69 Δ	1-426-450-11	COIL, DEMAGNETIZATION					

SECTION 8

ELECTRICAL PARTS LIST

NOTE :

The components identified by shading and mark  are critical for safety.

Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable


When indicating parts by reference number, please include the board name.

CAPACITORS

• MF : μF , PF : $\mu\mu F$

COILS

• MMH : mH, UH : μ H

- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1135-613-A	BA BOARD, COMPLETE (PVM-2042QM ONLY)			C271	1-101-004-00	CERAMIC	0.01MF 50V
*A-1135-614-A	BA BOARD, COMPLETE (PVM-2044QM ONLY)			C272	1-101-002-00	CERAMIC	0.0022MF 50V
	*****			C273	1-101-002-00	CERAMIC	0.0022MF 50V
	*****			C280	1-108-624-11	MYLAR	0.0068MF 10% 100V
				C281	1-126-101-11	ELECT	100MF 20% 16V
<CONNECTOR>				C292	1-101-004-00	CERAMIC	0.01MF 50V
BA1	*1-565-491-11	CONNECTOR, BOARD TO BOARD 15P		C401	1-123-875-11	ELECT	10MF 50V
BA2	*1-565-491-11	CONNECTOR, BOARD TO BOARD 15P		C402	1-101-888-00	CERAMIC	68PF 5% 50V
				C403	1-102-116-00	CERAMIC	680PF 10% 50V
				C404	1-136-161-00	FILM	0.047MF 5% 50V
<FILTER>				C405	1-102-074-00	CERAMIC	0.001MF 10% 50V
BPF243	1-236-363-11	FILTER, BAND PASS		C406	1-124-477-11	ELECT	47MF 20% 16V
BPF244	1-236-364-11	FILTER, BAND PASS		C407	1-101-890-00	CERAMIC	75PF 5% 50V
				C408	1-102-961-00	CERAMIC	27PF 5% 50V
				C409	1-136-165-00	FILM	0.1MF 5% 50V
<CAPACITOR>				C410	1-136-165-00	FILM	0.1MF 5% 50V
C201	1-124-120-11	ELECT	220MF 20% 16V	C411	1-136-165-00	FILM	0.1MF 5% 50V
C202	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C412	1-102-129-00	CERAMIC	0.01MF 10% 50V
C203	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C413	1-124-499-11	ELECT	1MF 20% 50V
C207	1-124-477-11	ELECT	47MF 20% 16V	C414	1-136-173-00	FILM	0.47MF 5% 50V
C208	1-124-477-11	ELECT	47MF 20% 16V	C415	1-123-875-11	ELECT	10MF 20% 50V
C209	1-124-477-11	ELECT	47MF 20% 16V	C416	1-102-118-00	CERAMIC	0.0012MF 10% 50V
C210	1-124-477-11	ELECT	47MF 20% 16V	C417	1-124-477-11	ELECT	47MF 20% 16V
C211	1-124-477-11	ELECT	47MF 20% 16V	C418	1-124-499-11	ELECT	1MF 20% 50V
C212	1-124-477-11	ELECT	47MF 20% 16V	C419	1-126-101-11	ELECT	100MF 20% 16V
C213	1-124-477-11	ELECT	47MF 20% 16V	C420	1-136-165-00	FILM	0.1MF 5% 50V
C214	1-101-004-00	CERAMIC	0.01MF 50V	C421	1-102-961-00	CERAMIC	27PF 5% 50V
C221	1-124-902-00	ELECT	0.47MF 20% 50V	C422	1-136-165-00	FILM	0.1MF 5% 50V
C222	1-124-464-11	ELECT	0.22MF 20% 50V	C423	1-123-875-11	ELECT	10MF 20% 50V
C223	1-102-963-00	CERAMIC	33PF 5% 50V	C424	1-136-165-00	FILM	0.1MF 5% 50V
C224	1-101-888-00	CERAMIC	68PF 5% 50V	C425	1-101-361-00	CERAMIC	150PF 5% 50V
C230	1-124-120-11	ELECT	220MF 20% 16V	C426	1-101-890-00	CERAMIC	75PF 5% 50V
C240	1-101-004-00	CERAMIC	0.01MF 50V	C427	1-124-120-11	ELECT	220MF 20% 16V
C241	1-124-120-11	ELECT	220MF 20% 16V	C428	1-124-477-11	ELECT	47MF 20% 16V
C242	1-126-101-11	ELECT	100MF 20% 16V	C429	1-124-477-11	ELECT	47MF 20% 16V
C243	1-124-120-11	ELECT	220MF 20% 16V	C430	1-101-004-00	CERAMIC	0.01MF 50V
C245	1-101-004-00	CERAMIC	0.01MF 50V	C431	1-101-884-00	CERAMIC	56PF 5% 50V
C246	1-123-875-11	ELECT	10MF 20% 50V	C432	1-101-004-00	CERAMIC	0.01MF 50V
C247	1-101-004-00	CERAMIC	0.01MF 50V	C433	1-126-101-11	ELECT	100MF 20% 16V
C248	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C434	1-101-884-00	CERAMIC	56PF 5% 50V
C250	1-161-021-11	CERAMIC	0.047MF 10% 25V	C435	1-101-884-00	CERAMIC	56PF 5% 50V
C251	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C441	1-102-963-00	CERAMIC	33PF 5% 50V
C252	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C442	1-161-021-11	CERAMIC	0.047MF 10% 25V
C253	1-102-125-00	CERAMIC	0.0047MF 10% 50V				
C254	1-102-125-00	CERAMIC	0.0047MF 10% 50V				
C255	1-101-004-00	CERAMIC	0.01MF 50V				
<CAPACITOR>							
C265	1-102-978-00	CERAMIC	220PF 5% 50V				
C266	1-101-003-00	CERAMIC	0.0047MF 50V				
C267	1-126-101-11	ELECT	100MF 20% 16V				
C268	1-101-003-00	CERAMIC	0.0047MF 50V				
C269	1-102-978-00	CERAMIC	220PF 5% 50V				
<CAPACITOR>							
C270	1-102-978-00	CERAMIC	220PF 5% 50V				
<CAPACITOR>							
C271	1-101-004-00	CERAMIC	0.01MF 50V				
C272	1-101-002-00	CERAMIC	0.0022MF 50V				
C273	1-101-002-00	CERAMIC	0.0022MF 50V				
C280	1-108-624-11	MYLAR	0.0068MF 10% 100V				
C281	1-126-101-11	ELECT	100MF 20% 16V				
C292	1-101-004-00	CERAMIC	0.01MF 50V				
C401	1-123-875-11	ELECT	10MF 50V				
C402	1-101-888-00	CERAMIC	68PF 5% 50V				
C403	1-102-116-00	CERAMIC	680PF 10% 50V				
C404	1-136-161-00	FILM	0.047MF 5% 50V				
C405	1-102-074-00	CERAMIC	0.001MF 10% 50V				
C406	1-124-477-11	ELECT	47MF 20% 16V				
C407	1-101-890-00	CERAMIC	75PF 5% 50V				
C408	1-102-961-00	CERAMIC	27PF 5% 50V				
C409	1-136-165-00	FILM	0.1MF 5% 50V				
C410	1-136-165-00	FILM	0.1MF 5% 50V				
C411	1-136-165-00	FILM	0.1MF 5% 50V				
C412	1-102-129-00	CERAMIC	0.01MF 10% 50V				
C413	1-124-499-11	ELECT	1MF 20% 50V				
C414	1-136-173-00	FILM	0.47MF 5% 50V				
C415	1-123-875-11	ELECT	10MF 20% 50V				
C416	1-102-118-00	CERAMIC	0.0012MF 10% 50V				
C417	1-124-477-11	ELECT	47MF 20% 16V				
C418	1-124-499-11	ELECT	1MF 20% 50V				
C419	1-126-101-11	ELECT	100MF 20% 16V				
C420	1-136-165-00	FILM	0.1MF 5% 50V				
C421	1-102-961-00	CERAMIC	27PF 5% 50V				
C422	1-136-165-00	FILM	0.1MF 5% 50V				
C423	1-123-875-11	ELECT	10MF 20% 50V				
C424	1-136-165-00	FILM	0.1MF 5% 50V				
C425	1-101-361-00	CERAMIC	150PF 5% 50V				
C426	1-101-890-00	CERAMIC	75PF 5% 50V				
C427	1-124-120-11	ELECT	220MF 20% 16V				
C428	1-124-477-11	ELECT	47MF 20% 16V				
C429	1-124-477-11	ELECT	47MF 20% 16V				
C430	1-101-004-00	CERAMIC	0.01MF 50V				
C431	1-101-884-00	CERAMIC	56PF 5% 50V				
C432	1-101-004-00	CERAMIC	0.01MF 50V				
C433	1-126-101-11	ELECT	100MF 20% 16V				
C434	1-101-884-00	CERAMIC	56PF 5% 50V				
C435	1-101-884-00	CERAMIC	56PF 5% 50V				
C441	1-102-963-00	CERAMIC	33PF 5% 50V				
C442	1-161-021-11	CERAMIC	0.047MF 10% 25V				
<CAPACITOR>							
C443	1-102-978-00	CERAMIC	220PF 5% 50V				
C444	1-101-003-00	CERAMIC	0.0047MF 50V				
C445	1-126-101-11	ELECT	100MF 20% 16V				
C446	1-101-003-00	CERAMIC	0.0047MF 50V				
C447	1-102-978-00	CERAMIC	220PF 5% 50V				
<CAPACITOR>							
C448	1-102-978-00	CERAMIC	220PF 5% 50V				
<CAPACITOR>							
C449	1-101-004-00	CERAMIC	0.01MF 50V				
C450	1-101-002-00	CERAMIC	0.0022MF 50V				
C451	1-101-002-00	CERAMIC	0.0022MF 50V				
C452	1-108-624-11	MYLAR	0.0068MF 10% 100V				
C453	1-126-101-11	ELECT	100MF 20% 16V				
C454	1-101-004-00	CERAMIC	0.01MF 50V				
C455	1-101-002-00	CERAMIC	0.0022MF 50V				
C456	1-101-002-00	CERAMIC	0.0022MF 50V				
C457	1-108-624-11	MYLAR	0.0068MF 10% 100V				
C458	1-126-101-11	ELECT	100MF 20% 16V				
C459	1-101-004-00	CERAMIC	0.01MF 50V				
C460	1-101-002-00	CERAMIC	0.0022MF 50V				
C461	1-101-002-00	CERAMIC	0.0022MF 50V				
C462	1-108-624-11	MYLAR	0.0068MF 10% 100V				
C463	1-126-101-11	ELECT	100MF 20% 16V				
C464	1-101-004-00	CERAMIC	0.01MF 50V				
C465	1-101-002-00	CERAMIC	0.0022MF 50V				
C466	1-101-002-00	CERAMIC	0.0022MF 50V				
C467	1-108-624-11	MYLAR	0.0068MF 10% 100V				
C468	1-126-101-11	ELECT	100MF 20% 16V				
C469	1-101-004-00	CERAMIC	0.01MF 50V				
C470	1-101-002-00	CERAMIC	0.0022MF 50V				
C471	1-101-002-00	CERAMIC	0.0022MF 50V				
C472	1-108-624-11	MYLAR	0.0068MF 10% 100V				
C473	1-126-101-11	ELECT	100MF 20% 16V				
C474	1-101-004-00	CERAMIC	0.01MF 50V				
C475	1-101-002-00	CERAMIC	0.0022MF 50V				
C476	1-101-002-00	CERAMIC	0.0022MF 50V				
C477	1-108-624-11	MYLAR	0.0068MF 10% 100V				
C478	1-126-101-11	ELECT	100MF 20% 16V				
C479	1-101-004-00	CERAMIC	0.01MF 50V				
C480	1-101-002-00	CERAMIC	0.0022MF 50V				
C481	1-101-002-00	CERAMIC	0.0022MF 50V				
C482	1-108-624-11	MYLAR	0.0068MF 10% 100V				
C483	1-126-101-11	ELECT	100MF 20% 16V				
C484	1-101-004-00	CERAMIC	0.01MF 50V				
C485	1-101-002-00	CERAMIC	0.0022MF 50V				
C486	1-101-002-00	CERAMIC	0.0022MF 50V				
C487	1-108-624-11	MYLAR	0.0068MF 10% 100V				
C488	1-126-101-11	ELECT	100MF 20% 16V				
C489	1-101-004-00	CERAMIC	0.01MF 50V				
C490	1-101-002-00	CERAMIC	0.0022MF 50V				
C491	1-101-002-00	CERAMIC	0.0022MF 50V				
C492	1-108-624-11	MYLAR	0.0068MF 10% 100V				
C493	1-126-101-11	ELECT	100MF 20% 16V				
C494	1-101-004-00	CERAMIC	0.01MF 50V				
C495	1-101-002-00	CERAMIC	0.0022MF 50V				
C496	1-101-002-00	CERAMIC	0.0022MF 50V				
C497	1-108-624-11	MYLAR	0.0068MF 10% 100V				
C498	1-126-101-11	ELECT	100MF 20% 16V				
C499	1-101-004-00	CERAMIC	0.01MF 50V				
C500	1-101-002-00	CERAMIC	0.0022MF 50V				
C501	1-101-002-00	CERAMIC	0.0022MF 50V				
C502	1-108-624-11	MYLAR	0.0068MF 10% 100V				
C503	1-126-101-11	ELECT	100MF 20% 16V				
C504	1-101-004-00	CERAMIC	0.01MF 50V				
C505	1-101-002-00	CERAMIC	0.0022MF 50V				
C506	1-101-002-00	CERAMIC	0.0022MF 50V				
C507	1-108-624-11	MYLAR	0.0068MF 10% 100V				
C508	1-126-101-11	ELECT	100MF 20% 16V				
C509	1-101-004-00	C					

BA

REF.NO.	PART NO.	DESCRIPTION	REMARK
<MODULE>			
CTR210	1-236-366-11	MODULE, TRAP	
CTR211	1-236-365-11	MODULE, TRAP	
PCM290	1-808-628-11	MODULE, PHASE PHM-1	
SEP270	1-808-654-11	MODULE	
<DIODE>			
D210	8-719-911-19	DIODE ISS119	
D211	8-719-911-19	DIODE ISS119	
D212	8-719-911-19	DIODE ISS119	
D240	8-719-110-16	DIODE RD10ES-B1	
D280	8-719-911-19	DIODE ISS119	
D401	8-719-911-19	DIODE ISS119	
D402	8-719-911-19	DIODE ISS119	
<DELAY LINE>			
DL230	1-415-632-11	DELAY LINE, Y	
<IC>			
FPG280	8-749-920-73	IC BX7595	
IC201	8-759-800-81	IC LA7016	
IC210	8-759-240-53	IC TC4053BP	
IC250	8-759-800-81	IC LA7016	
IC260	8-759-208-14	IC TC4066BPHB	
IC261	8-759-208-14	IC TC4066BPHB	
IC401	8-751-750-00	IC CX175	
<COIL>			
L280	1-410-509-11	INDUCTOR 10UH	
L281	1-410-478-11	INDUCTOR 47UH	
L282	1-410-470-11	INDUCTOR 10UH	
L401	1-410-087-31	INDUCTOR 10MMH	
L402	1-408-411-00	INDUCTOR 15UH	
L403	1-404-496-00	COIL	
L404	1-408-411-00	INDUCTOR 15UH	
L405	1-404-496-00	COIL	
L406	1-410-470-11	INDUCTOR 10UH	
L408	1-410-336-11	INDUCTOR 220UH	
<TRANSISTOR>			
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q210	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q211	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q212	8-729-900-89	TRANSISTOR DTC144ES	
Q213	8-729-900-89	TRANSISTOR DTC144ES	
Q214	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q221	8-729-900-89	TRANSISTOR DTC144ES	
Q222	8-729-900-63	TRANSISTOR DTA124ES	
Q230	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q231	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q232	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q233	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q234	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q240	8-729-140-96	TRANSISTOR 2SD774-34	
Q241	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q242	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q243	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q258	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q259	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q260	8-729-900-89	TRANSISTOR DTC144ES	
Q261	8-729-119-78	TRANSISTOR 2SC2785-HFE	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q262	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q263	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q264	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q265	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q280	8-729-900-89	TRANSISTOR DTC144ES	
Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q403	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q404	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q405	8-729-900-63	TRANSISTOR DTA124ES	
Q406	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q407	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q408	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q409	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q410	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q411	8-729-119-76	TRANSISTOR 2SA1175-HFE	
<RESISTOR>			
R201	1-249-435-11	CARBON 33K 5% 1/4W	
R202	1-249-435-11	CARBON 33K 5% 1/4W	
R203	1-249-405-11	CARBON 100 5% 1/4W	
R204	1-249-421-11	CARBON 2.2K 5% 1/4W	
R205	1-249-433-11	CARBON 22K 5% 1/4W	
R206	1-249-432-11	CARBON 18K 5% 1/4W	
R207	1-249-409-11	CARBON 220 5% 1/4W	
R208	1-249-411-11	CARBON 330 5% 1/4W	
R209	1-215-894-11	METAL OXIDE 2.2K 5% 2W F	
R210	1-249-437-11	CARBON 47K 5% 1/4W	
R211	1-249-437-11	CARBON 47K 5% 1/4W	
R212	1-249-437-11	CARBON 47K 5% 1/4W	
R213	1-249-429-11	CARBON 10K 5% 1/4W	
R214	1-249-433-11	CARBON 22K 5% 1/4W	
R215	1-249-437-11	CARBON 47K 5% 1/4W	
R216	1-249-429-11	CARBON 10K 5% 1/4W	
R217	1-249-429-11	CARBON 10K 5% 1/4W	
R218	1-249-425-11	CARBON 4.7K 5% 1/4W	
R219	1-249-405-11	CARBON 100 5% 1/4W	
R220	1-249-428-11	CARBON 8.2K 5% 1/4W	
R221	1-249-423-11	CARBON 3.3K 5% 1/4W	
R222	1-249-439-11	CARBON 68K 5% 1/4W	
R224	1-249-439-11	CARBON 68K 5% 1/4W	
R225	1-249-439-11	CARBON 68K 5% 1/4W	
R226	1-249-439-11	CARBON 68K 5% 1/4W	
R227	1-249-386-11	CARBON 2.7 5% 1/4W F	
R228	1-249-433-11	CARBON 22K 5% 1/4W	
R229	1-249-433-11	CARBON 22K 5% 1/4W	
R230	1-249-429-11	CARBON 10K 5% 1/4W	
R231	1-249-422-11	CARBON 2.7K 5% 1/4W	
R232	1-249-415-11	CARBON 680 5% 1/4W	
R233	1-249-415-11	CARBON 680 5% 1/4W	
R234	1-249-411-11	CARBON 330 5% 1/4W	
R235	1-249-416-11	CARBON 820 5% 1/4W	
R236	1-249-411-11	CARBON 330 5% 1/4W	
R237	1-249-411-11	CARBON 330 5% 1/4W	
R238	1-249-405-11	CARBON 100 5% 1/4W	
R239	1-249-417-11	CARBON 1K 5% 1/4W	
R240	1-249-407-11	CARBON 150 5% 1/4W	
R241	1-247-895-00	CARBON 470K 5% 1/4W	
R242	1-249-421-11	CARBON 2.2K 5% 1/4W	
R243	1-249-435-11	CARBON 33K 5% 1/4W	
R244	1-249-435-11	CARBON 33K 5% 1/4W	
R245	1-249-422-11	CARBON 2.7K 5% 1/4W	
R246	1-249-435-11	CARBON 33K 5% 1/4W	
R247	1-249-435-11	CARBON 33K 5% 1/4W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R248	1-249-422-11	CARBON	2.7K 5% 1/4W	R424	1-249-429-11	CARBON	10K 5% 1/4W
R249	1-249-432-11	CARBON	18K 5% 1/4W	R425	1-249-414-11	CARBON	560 5% 1/4W
R250	1-249-405-11	CARBON	100 5% 1/4W	R426	1-249-422-11	CARBON	2.7K 5% 1/4W
R251	1-249-433-11	CARBON	22K 5% 1/4W	R427	1-249-426-11	CARBON	5.6K 5% 1/4W
R252	1-249-421-11	CARBON	2.2K 5% 1/4W	R428	1-249-412-11	CARBON	390 5% 1/4W
R253	1-249-415-11	CARBON	680 5% 1/4W	R429	1-249-425-11	CARBON	4.7K 5% 1/4W
R254	1-249-420-11	CARBON	1.8K 5% 1/4W	R430	1-249-408-11	CARBON	180 5% 1/4W
R255	1-249-417-11	CARBON	1K 5% 1/4W	R431	1-249-411-11	CARBON	330 5% 1/4W
R256	1-249-405-11	CARBON	100 5% 1/4W	R432	1-249-422-11	CARBON	2.7K 5% 1/4W
R257	1-249-417-11	CARBON	1K 5% 1/4W	R433	1-249-437-11	CARBON	47K 5% 1/4W
R258	1-249-405-11	CARBON	100 5% 1/4W	R435	1-249-433-11	CARBON	22K 5% 1/4W
R259	1-249-441-11	CARBON	100K 5% 1/4W	R436	1-249-437-11	CARBON	47K 5% 1/4W
R260	1-249-425-11	CARBON	4.7K 5% 1/4W	R437	1-249-437-11	CARBON	47K 5% 1/4W
R261	1-247-891-00	CARBON	330K 5% 1/4W	R438	1-249-437-11	CARBON	47K 5% 1/4W
R262	1-249-435-11	CARBON	33K 5% 1/4W	R439	1-249-426-11	CARBON	5.6K 5% 1/4W
R263	1-249-422-11	CARBON	2.7K 5% 1/4W	R440	1-249-437-11	CARBON	47K 5% 1/4W
R264	1-249-422-11	CARBON	2.7K 5% 1/4W	R441	1-249-440-11	CARBON	82K 5% 1/4W
R268	1-249-417-11	CARBON	1K 5% 1/4W	R442	1-249-405-11	CARBON	100 5% 1/4W
R270	1-249-417-11	CARBON	1K 5% 1/4W	R443	1-249-405-11	CARBON	100 5% 1/4W
R271	1-249-417-11	CARBON	1K 5% 1/4W	R444	1-249-432-11	CARBON	18K 5% 1/4W
R272	1-249-417-11	CARBON	1K 5% 1/4W	R445	1-249-432-11	CARBON	18K 5% 1/4W
R273	1-249-426-11	CARBON	5.6K 5% 1/4W	R446	1-249-437-11	CARBON	47K 5% 1/4W
R274	1-249-429-11	CARBON	10K 5% 1/4W	R447	1-249-437-11	CARBON	47K 5% 1/4W
R275	1-249-413-11	CARBON	470 5% 1/4W	R448	1-249-435-11	CARBON	33K 5% 1/4W
R276	1-249-417-11	CARBON	1K 5% 1/4W	R449	1-249-417-11	CARBON	1K 5% 1/4W
R277	1-247-891-00	CARBON	330K 5% 1/4W	<VARIABLE RESISTOR>			
R278	1-247-891-00	CARBON	330K 5% 1/4W	RV290	1-228-994-00	RES, ADJ, CARBON 10K	
R279	1-249-429-11	CARBON	10K 5% 1/4W	RV291	1-228-991-00	RES, ADJ, CARBON 2.2K	
R280	1-249-429-11	CARBON	10K 5% 1/4W	RV292	1-228-991-00	RES, ADJ, CARBON 2.2K	
R281	1-249-429-11	CARBON	10K 5% 1/4W	<COIL>			
R282	1-249-429-11	CARBON	10K 5% 1/4W	T401	1-404-584-11	COIL	
R283	1-249-429-11	CARBON	10K 5% 1/4W	*****			
R284	1-249-429-11	CARBON	10K 5% 1/4W	*A-1331-036-A	C BOARD, COMPLETE		
R285	1-249-429-11	CARBON	10K 5% 1/4W	*****			
R290	1-249-441-11	CARBON	100K 5% 1/4W	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		
R291	1-249-413-11	CARBON	470 5% 1/4W	1-526-798-51	SOCKET, PICTURE TUBE		
R292	1-249-435-11	CARBON	33K 5% 1/4W	*4-341-751-01	EYELET (EY16)		
R293	1-249-435-11	CARBON	33K 5% 1/4W	*4-341-752-01	EYELET (EY14, EY15)		
R294	1-249-405-11	CARBON	100 5% 1/4W	*4-379-160-01	COVER (REAR LID), CV		
R295	1-249-405-11	CARBON	100 5% 1/4W	*4-379-167-01	COVER (MAIN), CV		
R296	1-249-405-11	CARBON	100 5% 1/4W	<CONNECTOR>			
R297	1-249-405-11	CARBON	100 5% 1/4W	C1	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
R299	1-249-429-11	CARBON	10K 5% 1/4W	C2	*1-506-371-00	PIN, CONNECTOR 2P	
R401	1-249-419-11	CARBON	1.5K 5% 1/4W	C3	*1-564-513-11	PLUG, CONNECTOR 10P	
R403	1-247-881-00	CARBON	120K 5% 1/4W	<CAPACITOR>			
R405	1-215-429-00	METAL	2.2K 1% 1/6W	C701	1-102-824-00	CERAMIC	470PF 5% 50V
R406	1-249-429-11	CARBON	10K 5% 1/4W	C702	1-102-824-00	CERAMIC	470PF 5% 50V
R407	1-249-422-11	CARBON	2.7K 5% 1/4W	C703	1-102-824-00	CERAMIC	470PF 5% 50V
R408	1-249-414-11	CARBON	560 5% 1/4W	C704	1-102-121-00	CERAMIC	0.0022MF 10% 50V
R409	1-249-421-11	CARBON	2.2K 5% 1/4W	C705	1-123-875-11	ELECT	10MF 20% 50V
R410	1-249-419-11	CARBON	1.5K 5% 1/4W	C706	1-101-002-00	CERAMIC	0.0022MF 50V
R411	1-249-419-11	CARBON	1.5K 5% 1/4W	C707	1-162-116-00	CERAMIC	680PF 10% 2KV
R412	1-249-423-11	CARBON	3.3K 5% 1/4W	C708	1-136-601-11	FILM	0.01MF 10% 630V
R413	1-249-434-11	CARBON	27K 5% 1/4W	C713	1-162-116-00	CERAMIC	680PF 10% 2KV
R414	1-247-895-00	CARBON	470K 5% 1/4W				
R415	1-249-412-11	CARBON	390 5% 1/4W				
R416	1-249-415-11	CARBON	680 5% 1/4W				
R417	1-249-409-11	CARBON	220 5% 1/4W				
R418	1-249-425-11	CARBON	4.7K 5% 1/4W				
R419	1-249-433-11	CARBON	22K 5% 1/4W				
R420	1-215-431-00	METAL	2.7K 1% 1/6W				
R421	1-249-419-11	CARBON	1.5K 5% 1/4W				
R422	1-249-419-11	CARBON	1.5K 5% 1/4W				
R423	1-249-421-11	CARBON	2.2K 5% 1/4W				

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

PVM-2042QM/2044QM

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C714	1-102-116-00	CERAMIC 680PF 10% 50V		R708	1-249-418-11	CARBON 1.2K 5% 1/4W	
C715	1-102-116-00	CERAMIC 680PF 10% 50V		R709	1-249-418-11	CARBON 1.2K 5% 1/4W	
C716	1-102-116-00	CERAMIC 680PF 10% 50V		R710	1-249-402-11	CARBON 56 5% 1/4W	
C717	1-162-599-12	CERAMIC 0.0047MF 20% 400V		R711	1-249-405-11	CARBON 100 5% 1/4W	
C722	1-162-622-11	CERAMIC 330PF 10% 6.3KV		R712	1-249-402-11	CARBON 56 5% 1/4W	
C724	1-124-667-11	ELECT 10MF 20% 100V		R715	1-202-818-00	SOLID 1K 10% 1/2W	
C726	1-123-946 00	ELECT 4.7MF 20% 250V		R716	1-216-486-00	METAL OXIDE 8.2K 5% 3W	F
C733	1-162-318-11	CERAMIC 0.001MF 10% 500V		R717	1-202-818-00	SOLID 1K 10% 1/2W	
<DIODE>				R718	1-216-486-00	METAL OXIDE 8.2K 5% 3W	F
D701	8-719-911-19	DIODE 1SS119		R719	1-202-818-00	SOLID 1K 10% 1/2W	
D702	8-719-911-19	DIODE 1SS119		R720	1-216-486-00	METAL OXIDE 8.2K 5% 3W	F
D703	8-719-911-19	DIODE 1SS119		R721	1-216-397-11	METAL OXIDE 4.7 5% 3W	F
D704	8-719-911-19	DIODE 1SS119		R722	1-202-842-11	SOLID 220K 10% 1/2W	
D705	8-719-911-19	DIODE 1SS119		R723	1-202-838-00	SOLID 100K 10% 1/2W	
D706	8-719-911-19	DIODE 1SS119		R724	1-202-842-11	SOLID 220K 10% 1/2W	
D707	8-729-901-83	DIODE 1SS83		R725	1-202-838-00	SOLID 100K 10% 1/2W	
D708	8-729-901-83	DIODE 1SS83		R726	1-202-846-00	SOLID 470K 10% 1/2W	
D709	8-729-901-83	DIODE 1SS83		R727	1-202-842-11	SOLID 220K 10% 1/2W	
D713	8-729-901-83	DIODE 1SS83		R728	1-202-837-00	SOLID 82K 10% 1/2W	
D715	8-729-901-83	DIODE 1SS83		R729	1-202-549-00	SOLID 100 10% 1/2W	
D716	8-729-901-83	DIODE 1SS83		R730	1-202-842-11	SOLID 220K 10% 1/2W	
D717	8-729-901-83	DIODE 1SS83		R731	1-249-409-11	CARBON 220 5% 1/4W	
<FILTER>				R732	1-249-409-11	CARBON 220 5% 1/4W	
FL701	1-236-388-11	FILTER, EMI		R733	1-249-409-11	CARBON 220 5% 1/4W	
FL702	1-236-388-11	FILTER, EMI		R734	1-249-409-11	CARBON 220 5% 1/4W	F
FL703	1-236-388-11	FILTER, EMI		R735	1-249-409-11	CARBON 220 5% 1/4W	F
<COIL>				R736	1-249-409-11	CARBON 220 5% 1/4W	F
L701	1-408-121-00	INDUCTOR 22UH		R737	1-249-405-11	CARBON 100 5% 1/4W	
L702	1-408-414-00	INDUCTOR 27UH		R738	1-249-405-11	CARBON 100 5% 1/4W	
L703	1-410-476-11	INDUCTOR 33UH		R739	1-249-405-11	CARBON 100 5% 1/4W	
L704	1-408-414-00	INDUCTOR 27UH		R740	1-249-433-11	CARBON 22K 5% 1/4W	F
<TRANSISTOR>				R741	1-249-433-11	CARBON 22K 5% 1/4W	F
Q701	8-729-119-78	TRANSISTOR 2SC2785 HFE		R742	1-249-433-11	CARBON 22K 5% 1/4W	F
Q702	8-729-119-78	TRANSISTOR 2SC2785 HFE		R743	1-249-441-11	CARBON 100K 5% 1/4W	
Q703	8-729-119-78	TRANSISTOR 2SC2785 HFE		R744	1-249-423-11	CARBON 3.3K 5% 1/4W	
Q704	8-729-200-17	TRANSISTOR 2SA1091		R745	1-249-429-11	CARBON 10K 5% 1/4W	
Q705	8-729-200-17	TRANSISTOR 2SA1091		R746	1-215-902-11	METAL OXIDE 47K 5% 1W	F
Q706	8-729-200-17	TRANSISTOR 2SA1091		R747	1-247-725-11	CARBON 10K 5% 1/4W	F
Q707	8-729-326-11	TRANSISTOR 2SC2611		R748	1-247-713-11	CARBON 1K 5% 1/4W	F
Q708	8-729-326-11	TRANSISTOR 2SC2611		R749	1-215-902-11	METAL OXIDE 47K 5% 2W	F
Q709	8-729-326-11	TRANSISTOR 2SC2611		R750	1-215-905-11	METAL OXIDE 10 5% 3W	F
Q710	8-729-200-17	TRANSISTOR 2SA1091		R751	1-247-887-00	CARBON 220K 5% 1/4W	
Q711	8-729-200-17	TRANSISTOR 2SA1091		R752	1-247-887-00	CARBON 220K 5% 1/4W	
Q712	8-729-200-17	TRANSISTOR 2SA1091		R753	1-247-887-00	CARBON 220K 5% 1/4W	
Q713	8-729-255-12	TRANSISTOR 2SC2551		<VARIABLE RESISTOR>			
Q714	8-729-255-12	TRANSISTOR 2SC2551		RV708	1-230-619-11	RES, ADJ, METAL GLAZE 110M	
Q715	8-729-178-55	TRANSISTOR 2SC2785-E		RV709	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M	
Q716	8-729-178-55	TRANSISTOR 2SC2785-E		*****			
Q717	8-729-178-55	TRANSISTOR 2SC2785-E		*1-632-002-11	P BOARD		
<RESISTOR>					*****		
R702	1-247-887-00	CARBON 220K 5% 1/4W		*4-341-751-01	EYELET (EY5,EY6,EY7,EY8,EY9,EY10,EY11,EY12,EY13)		
R704	1-249-410-11	CARBON 270 5% 1/4W		*4-341-752-01	EYELET (EY1,EY2,EY3,EY4)		
R705	1-249-410-11	CARBON 270 5% 1/4W		<CAPACITOR>			
R706	1-249-410-11	CARBON 270 5% 1/4W		C901	1-162-114-00	CERAMIC 0.0047MF 2K V	
R707	1-249-418-11	CARBON 1.2K 5% 1/4W		C902	1-102-212-00	CERAMIC 820PF 10% 50V	
				C903	1-124-931-11	ELECT 47MF 20% 100 V	
				C904	1-108-693-11	MYLAR 0.012MF 10% 200 V	

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The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C905	1-108-700-11	MYLAR 0.047MF	10% 200V	<TRANSFORMER>			
C906	1-106-389-00	MYLAR 0.082MF	10% 200V	T901 Δ	1-439-468-11	TRANSFORMER ASSY. FLYBACK (NX-2310)	
C907 Δ	1-123-935-51	ELECT 33MF	20% 160V	T902	1-413-059-00	TRANSFORMER, FERRITE (DFT)	
C908	1-123-948-00	ELECT 22MF	20% 250V	T903 Δ	1-460-017-11	TRANSFORMER	
C909	1-126-101-11	ELECT 100MF	20% 16V	*****			
C910	1-124-120-11	ELECT 220MF	20% 16V	*1-632-006-11	Y BOARD		
C911	1-126-101-11	ELECT 100MF	20% 16V		*****		
<DIODE>				<CAPACITOR>			
D901	8-719-300-65	DIODE ES1F		C1500	1-124-499-11	ELECT 1MF	20% 50V
D902	8-719-300-76	DIODE RH-1A		C1501	1-102-125-00	CERAMIC 0.0047MF	10% 50V
D903	8-719-200-02	DIODE 10E2		<IC>			
D904	8-719-110-31	DIODE RD12ES-B2		IC1500	8-759-909-70	IC CX23025	
D905	8-719-911-19	DIODE ISS119		<TRANSISTOR>			
D906	8-719-110-18	DIODE RD10ES-B3		Q1500	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D907	8-719-911-19	DIODE ISS119		Q1501	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<COIL>				Q1502	8-729-900-63	TRANSISTOR DTA124ES	
L901	1-408-072-00	INDUCTOR 47UH		<RESISTOR>			
L902 Δ	1-459-407-11	COIL, FERRITE CHOKER		R1500	1-249-437-11	CARBON 47K	5% 1/4W
L903	1-459-104-00	COIL, DUST CORE		R1501	1-249-437-11	CARBON 47K	5% 1/4W
L904 Δ	1-459-106-11	COIL, DUST CORE		R1502	1-249-437-11	CARBON 47K	5% 1/4W
<NEON LAMP>				R1503	1-249-429-11	CARBON 10K	5% 1/4W
NL901	1-519-108-99	LAMP, NEON		R1504	1-249-437-11	CARBON 47K	5% 1/4W
<CONNECTOR>				R1505	1-249-437-11	CARBON 47K	5% 1/4W
P1	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P		<CONNECTOR>			
P2	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P		Y1	*1-565-481-11	CONNECTOR, BOARD TO BOARD 5P	
P3	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		*****			
P4	*1-564-507-11	PLUG, CONNECTOR 4P		*1-632-007-11	T BOARD		
P5	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P			*****		
P6	*1-564-505-11	PLUG, CONNECTOR 2 (PVM-2044QM ONLY)		*1-564-505-11	PLUG, CONNECTOR 2P		
P7	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		*1-564-508-11	PLUG, CONNECTOR 5P		
<TRANSISTOR>				*1-565-483-11	CONNECTOR, BOARD TO BOARD 7P		
Q901	8-729-119-76	TRANSISTOR 2SA1175-HFE		<CAPACITOR>			
Q902	8-729-140-96	TRANSISTOR 2SD774-34		C1601	1-126-101-11	ELECT 100MF	20% 16V
<RESISTOR>				C1602	1-101-004-00	CERAMIC 0.01MF	50V
R901	1-215-892-11	METAL OXIDE 1K	5% 2W F	C1603	1-102-951-00	CERAMIC 15PF	5% 50V
R902	1-216-445-11	METAL OXIDE 12	5% 2W F	<DIODE>			
R903	1-249-448-11	CARBON 1.2	5% 1/4W F	D1601	8-719-911-19	DIODE ISS119	
R904	1-247-692-11	CARBON 22	5% 1/4W F	D1602	8-719-911-19	DIODE ISS119	
R905	1-216-425-11	METAL OXIDE 56	5% 1W F	D1603	8-719-911-19	DIODE ISS119	
R906	1-249-441-11	CARBON 100K	5% 1/4W	D1604	8-719-911-19	DIODE ISS119	
R907	1-249-405-11	CARBON 100	5% 1/4W	D1605	8-719-911-19	DIODE ISS119	
R908	1-249-429-11	CARBON 10K	5% 1/4W	<FILTER>			
R909	1-249-429-11	CARBON 10K	5% 1/4W	FL1601	1-236-547-11	TRAP, LC	
R910	1-249-429-11	CARBON 10K	5% 1/4W				
R911	1-249-429-11	CARBON 10K	5% 1/4W				
R912	1-216-429-00	METAL OXIDE 270	5% 1W F				
<RELAY>							
RY901	1-515-601-11	RELAY					



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<COIL>				Q1711 8-729-119-78 TRANSISTOR 2SC2785-HFE			
L1601	1-410-482-31	INDUCTOR	100UH	<RESISTOR>			
<TRANSISTOR>				R1700	1-249-422-11	CARBON	2.7K 5% 1/4W
Q1601	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1701	1-249-425-11	CARBON	4.7K 5% 1/4W
Q1602	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1702	1-249-417-11	CARBON	1K 5% 1/4W
Q1603	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1703	1-249-422-11	CARBON	2.7K 5% 1/4W
Q1604	8-729-900-89	TRANSISTOR	DTC144ES	R1704	1-249-417-11	CARBON	1K 5% 1/4W
<RESISTOR>				R1705	1-249-441-11	CARBON	100K 5% 1/4W
R1601	1-249-417-11	CARBON	1K 5% 1/4W	R1706	1-249-441-11	CARBON	100K 5% 1/4W
R1602	1-249-415-11	CARBON	680 5% 1/4W	R1707	1-249-441-11	CARBON	100K 5% 1/4W
R1603	1-249-415-11	CARBON	680 5% 1/4W	R1708	1-249-441-11	CARBON	100K 5% 1/4W
R1604	1-249-434-11	CARBON	27K 5% 1/4W	R1709	1-249-429-11	CARBON	10K 5% 1/4W
R1605	1-249-415-11	CARBON	680 5% 1/4W	R1710	1-249-438-11	CARBON	56K 5% 1/4W
R1606	1-249-433-11	CARBON	22K 5% 1/4W	R1711	1-249-429-11	CARBON	10K 5% 1/4W
R1607	1-249-433-11	CARBON	22K 5% 1/4W	R1712	1-249-429-11	CARBON	10K 5% 1/4W
R1608	1-249-433-11	CARBON	22K 5% 1/4W	R1713	1-249-429-11	CARBON	10K 5% 1/4W
R1609	1-249-437-11	CARBON	47K 5% 1/4W	R1714	1-249-429-11	CARBON	10K 5% 1/4W
*****				R1715	1-249-429-11	CARBON	10K 5% 1/4W
*1-632-004-11	V BOARD	*****		R1716	1-249-438-11	CARBON	56K 5% 1/4W
<CAPACITOR>				R1717	1-249-429-11	CARBON	10K 5% 1/4W
C1700	1-124-120-11	ELECT	220MF 20% 16V	R1718	1-249-429-11	CARBON	10K 5% 1/4W
C1701	1-101-004-00	CERAMIC	0.01MF 50V	R1719	1-249-417-11	CARBON	1K 5% 1/4W
C1702	1-102-978-00	CERAMIC	220PF 5% 50V	R1720	1-249-429-11	CARBON	10K 5% 1/4W
C1703	1-102-978-00	CERAMIC	220PF 5% 50V	R1721	1-249-429-11	CARBON	10K 5% 1/4W
C1705	1-124-499-11	ELECT	1MF 20% 50V	R1722	1-249-429-11	CARBON	10K 5% 1/4W
C1706	1-124-499-11	ELECT	1MF 20% 50V	R1723	1-249-429-11	CARBON	10K 5% 1/4W
C1707	1-124-120-11	ELECT	220MF 20% 16V	R1724	1-249-429-11	CARBON	10K 5% 1/4W
C1710	1-101-884-00	CERAMIC	56PF 5% 50V	R1725	1-247-891-00	CARBON	330K 5% 1/4W
C1711	1-101-884-00	CERAMIC	56PF 5% 50V	R1726	1-247-891-00	CARBON	330K 5% 1/4W
<DIODE>				R1727	1-249-437-11	CARBON	47K 5% 1/4W
D1700	8-719-911-19	DIODE	1SS119	R1728	1-249-437-11	CARBON	47K 5% 1/4W
D1701	8-729-936-56	DIODE	DAN209S	R1729	1-249-405-11	CARBON	100 5% 1/4W
D1702	8-729-936-56	DIODE	DAN209S	R1730	1-249-405-11	CARBON	100 5% 1/4W
D1703	8-729-936-56	DIODE	DAN209S	R1731	1-249-417-11	CARBON	1K 5% 1/4W
D1704	8-729-936-56	DIODE	DAN209S	R1732	1-249-417-11	CARBON	1K 5% 1/4W
D1705	8-719-933-28	DIODE	DAP209S	R1733	1-249-409-11	CARBON	220 5% 1/4W
D1706	8-719-933-28	DIODE	DAP209S	R1734	1-249-409-11	CARBON	220 5% 1/4W
D1707	8-719-911-19	DIODE	1SS119	R1750	1-249-423-11	CARBON	3.3K 5% 1/4W
D1708	8-719-911-19	DIODE	1SS119	<VARIABLE RESISTOR>			
<TRANSISTOR>				RV1700	1-228-993-00	RES, ADJ, CARBON	4.7K
Q1700	8-729-119-78	TRANSISTOR	2SC2785-HFE	RV1701	1-228-994-00	RES, ADJ, CARBON	10K
Q1701	8-729-119-78	TRANSISTOR	2SC2785-HFE	RV1702	1-228-993-00	RES, ADJ, CARBON	4.7K
Q1702	8-729-119-78	TRANSISTOR	2SC2785-HFE	RV1703	1-228-994-00	RES, ADJ, CARBON	10K
Q1703	8-729-119-78	TRANSISTOR	2SC2785-HFE	RV1704	1-237-524-21	RES, ADJ, CARBON	1M
Q1704	8-729-119-78	TRANSISTOR	2SC2785-HFE	RV1705	1-228-999-00	RES, ADJ, CARBON	470K
Q1705	8-729-119-78	TRANSISTOR	2SC2785-HFE	RV1706	1-228-999-00	RES, ADJ, CARBON	470K
Q1706	8-729-900-89	TRANSISTOR	DTC144ES	RV1707	1-228-999-00	RES, ADJ, CARBON	470K
Q1707	8-729-900-89	TRANSISTOR	DTC144ES	RV1708	1-228-995-00	RES, ADJ, CARBON	22K
Q1708	8-729-115-30	TRANSISTOR	2SK105A-30	RV1709	1-228-995-00	RES, ADJ, CARBON	22K
Q1709	8-729-115-30	TRANSISTOR	2SK105A-30	RV1710	1-228-995-00	RES, ADJ, CARBON	22K
Q1710	8-729-119-78	TRANSISTOR	2SC2785-HFE	<CONNECTOR>			
*****				V1	*1-563-720-11	SOCKET, CONNECTOR (PC BOARD)9P	
*****				V2	*1-563-720-11	SOCKET, CONNECTOR (PC BOARD)9P	
*****				*****			
*****				*A-1245-479-A FE BOARD, COMPLETE			
*****				*****			

F E

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	*4-341-751-01	EYELET		D652	8-719-200-02	DIODE 10E2	
	*4-341-752-01	EYELET		D653	8-719-300-76	DIODE RH-1A	
	4-363-414-00	SPACER, MICA		D654	8-719-911-19	DIODE 1SS119	
				D655	8-719-110-41	DIODE RD15ES-B2	
<CAPACITOR>				<CONNECTOR>			
C602	Δ 1-161-830-51	CERAMIC	0.0047MF 500V	F1	*1-568-106-11	PIN, CONNECTOR 7P	
C603	Δ 1-161-830-51	CERAMIC	0.0047MF 500V	F3	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
C604	Δ 1-161-830-51	CERAMIC	0.0047MF 500V	F4	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
C605	Δ 1-161-830-51	CERAMIC	0.0047MF 500V	F5	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
C606	1-125-222-41	ELECT (BLOCK)	330MF 20% 400V	F6	*1-506-371-00	PIN, CONNECTOR 2P	
C607	Δ 1-136-360-51	FILM	0.22MF 20% 250V	F7	*1-568-106-11	PIN, CONNECTOR 7P	
C608	Δ 1-136-360-51	FILM	0.22MF 20% 250V				
C611	1-102-973-00	CERAMIC	100PF 5% 50V				
C612	1-161-754-00	CERAMIC	0.001MF 10% 3KV				
C613	1-123-946-00	ELECT	4.7MF 20% 250V				
				<FUSE>			
C614	1-136-067-00	FILM	0.0036MF 3% 2KV	F601	Δ 1-532-350-11	FUSE, TIME-LAG 4A/250V	
C615	1-129-765-00	FILM	0.047MF 10% 200V		*1-533-189-11	HOLDER, FUSE; F601	
C616	1-124-798-11	ELECT	1MF 20% 160V				
C617	1-124-902-00	ELECT	0.47MF 20% 50V				
C618	1-162-318-11	CERAMIC	0.001MF 10% 500V				
				<IC>			
C619	1-123-875-11	ELECT	10MF 20% 50V	IC601	8-759-100-75	IC UPC1394C	
C620	1-124-446-11	ELECT	47MF 20% 10V	IC602	8-719-939-00	DIODE PC111S	
C621	1-130-475-00	FILM	0.0022MF 5% 50V	IC651	8-759-927-49	IC IR9431	
C622	1-104-067-00	POLYSTYRENE	390PF 5% 50V				
C623	1-126-233-11	ELECT	22MF 20% 25V				
				<COIL>			
C624	1-162-318-11	CERAMIC	0.001MF 10% 500V	L621	1-407-365-00	COIL, CHOKE	
C625	1-124-463-00	ELECT	0.1MF 20% 50V	L622	1-408-226-00	INDUCTOR 82UH	
C626	1-161-973-00	CERAMIC	220PF 10% 400V	L623	1-410-397-21	FERRITE BEAD INDUCTOR	
C627	1-136-066-00	FILM	0.003MF 3% 2KV	L624	Δ 1-410-396-41	FERRITE BEAD INDUCTOR	
C631	1-162-116-00	CERAMIC	680PF 10% 2KV	L625	Δ 1-410-396-41	FERRITE BEAD INDUCTOR	
C633	1-162-131-11	CERAMIC	220PF 10% 2KV				
C651	1-125-494-11	ELECT (BLOCK)	560MF 20% 160V				
C654	1-102-030-00	CERAMIC	330PF 10% 500V				
C656	1-102-030-00	CERAMIC	330PF 10% 500V				
C657	1-161-973-00	CERAMIC	220PF 10% 400V				
				<TRANSISTOR>			
C658	1-124-499-11	ELECT	1MF 20% 50V	Q611	8-729-119-80	TRANSISTOR 2SC2688-LK	
C659	1-108-614-11	MYLAR	0.001MF 10% 100V	Q612	8-729-119-80	TRANSISTOR 2SC2688-LK	
C660	Δ 1-162-578-51	CERAMIC	0.0047MF 20% 400V	Q613	8-729-802-14	TRANSISTOR 2SC3460	
C661	Δ 1-162-578-51	CERAMIC	0.0047MF 20% 400V	Q614	8-729-119-80	TRANSISTOR 2SC2688-LK	
C671	1-126-103-11	ELECT	470MF 20% 16V	Q615	8-729-119-78	TRANSISTOR 2SC2785-HFE	
				Q617	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C674	1-126-105-11	ELECT	1000MF 20% 35V				
C675	1-162-116-00	CERAMIC	680PF 10% 2KV				
C676	1-102-973-00	CERAMIC	100PF 5% 50V				
				<RESISTOR>			
				R601	Δ 1-205-712-11	WIREWOUND 3.9 5% 20W F	
				R602	Δ 1-214-945-21	METAL 2.2M 1% 1/2W	
				R603	Δ 1-246-521-75	CARBON 100K 5% 1/4W	
				R604	Δ 1-246-521-75	CARBON 100K 5% 1/4W	
				R605	1-202-720-00	SOLID 1.2M 10% 1/2W	
				R606	1-249-423-11	CARBON 3.3K 5% 1/4W	
				R610	1-249-405-11	CARBON 100 5% 1/4W	
				R611	1-216-444-11	METAL OXIDE 82K 5% 1W F	
				R612	1-216-444-11	METAL OXIDE 82K 5% 1W F	
				R613	1-249-496-11	CARBON 100K 5% 1/2W F	
				R614	1-215-923-00	METAL OXIDE 10K 5% 3W F	
				R615	1-247-887-00	CARBON 220K 5% 1/4W	
				R616	1-247-711-11	CARBON 680 5% 1/4W	
				R617	1-247-725-11	CARBON 10K 5% 1/4W	
				R618	1-249-396-11	CARBON 18 5% 1/4W	
				R619	1-247-710-11	CARBON 560 5% 1/4W F	
<DIODE>							
D601	Δ 8-719-503-06	DIODE S3WB60Z					
D605	8-719-911-19	DIODE 1SS119					
D606	8-719-911-19	DIODE 1SS119					
D607	8-719-110-90	DIODE RD39ES-B4					
D608	8-719-110-90	DIODE RD39ES-B4					
D611	8-719-118-34	DIODE RD110E-B					
D612	8-719-300-33	DIODE RU-3AM					
D613	8-719-200-02	DIODE 10E2					
D614	8-719-300-33	DIODE RU-3AM					
D615	8-719-109-97	DIODE RD6.8ES-B2					
D616	8-719-300-33	DIODE RU-3AM					
D617	8-719-911-19	DIODE 1SS119					
D619	8-719-911-19	DIODE 1SS119					
D620	8-719-300-33	DIODE RU-3AM					
D622	8-719-110-49	DIODE RD18ES-B2					
D651	8-719-300-33	DIODE RU-3AM					

QA

QB

REF.NO.	PART NO.	DESCRIPTION	REMARK
R117	1-249-405-11	CARBON 100 5% 1/4W	
R118	1-249-433-11	CARBON 22K 5% 1/4W	
R119	1-249-433-11	CARBON 22K 5% 1/4W	
R120	1-249-429-11	CARBON 10K 5% 1/4W	
R121	1-249-405-11	CARBON 100 5% 1/4W	
R122	1-247-104-00	CARBON 75 5% 1/4W	
R123	1-249-405-11	CARBON 100 5% 1/4W	
R124	1-249-421-11	CARBON 2.2K 5% 1/4W	
R125	1-249-429-11	CARBON 10K 5% 1/4W	
R126	1-247-104-00	CARBON 75 5% 1/4W	
R127	1-247-104-00	CARBON 75 5% 1/4W	
R128	1-247-104-00	CARBON 75 5% 1/4W	
R129	1-247-104-00	CARBON 75 5% 1/4W	
R130	1-247-104-00	CARBON 75 5% 1/4W	
R131	1-247-104-00	CARBON 75 5% 1/4W	
R132	1-249-417-11	CARBON 1K 5% 1/4W	
R168	1-249-429-11	CARBON 10K 5% 1/4W	
R177	1-249-405-11	CARBON 100 5% 1/4W	
R178	1-249-433-11	CARBON 22K 5% 1/4W	
R179	1-249-433-11	CARBON 22K 5% 1/4W	
R184	1-249-420-11	CARBON 1.8K 5% 1/4W	
<VARIABLE RESISTOR>			
RV101	1-228-848 00	RES, VAR, CARBON 10K	
<SWITCH>			
S101	1-570-145-11	SWITCH, SLIDE	
S102	1-570-145-11	SWITCH, SLIDE	

*A-1270-246-A QB BOARD, COMPLETE (PVM-2044QM ONLY)			

<CAPACITOR>			
C126	1-124-477-11	ELECT 47MF 20% 25V	
C127	1-124-477-11	ELECT 47MF 20% 25V	
C128	1-124-477-11	ELECT 47MF 20% 25V	
C129	1-161-021-11	CERAMIC 0.047MF 10% 25V	
C130	1-124-477-11	ELECT 47MF 20% 25V	
C131	1-124-477-11	ELECT 47MF 20% 25V	
C132	1-124-477-11	ELECT 47MF 20% 25V	
C133	1-124-477-11	ELECT 47MF 20% 25V	
C134	1-124-477-11	ELECT 47MF 20% 25V	
C135	1-124-477-11	ELECT 47MF 20% 25V	
C136	1-124-477-11	ELECT 47MF 20% 25V	
C142	1-124-631-11	ELECT 47MF 20% 16V	
C143	1-124-477-11	ELECT 47MF 20% 25V	
C144	1-124-477-11	ELECT 47MF 20% 25V	
C145	1-124-477-11	ELECT 47MF 20% 25V	
C146	1-124-477-11	ELECT 47MF 20% 25V	
C147	1-101-004-00	CERAMIC 0.01MF 50V	
C148	1-101-004-00	CERAMIC 0.01MF 50V	
C149	1-124-478-11	ELECT 100MF 20% 25V	
C150	1-124-499-11	ELECT 1MF 20% 50V	
C151	1-161-021-11	CERAMIC 0.047MF 10% 25V	
C152	1-124-925-11	ELECT 2.2MF 20% 50V	
C154	1-101-004-00	CERAMIC 0.01MF 50V	
C169	1-124-477-11	ELECT 47MF 20% 25V	

<COMPOSITION CIRCUIT BLOCK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CP116	1-232-096-00	COMPOSITION CIRCUIT BLOCK	
<DIODE>			
D101	8-719-911-19	DIODE 1SS119	
D102	8-719-911-19	DIODE 1SS119	
D105	8-719-911-19	DIODE 1SS119	
D106	8-719-911-19	DIODE 1SS119	
D111	8-719-911-19	DIODE 1SS119	
D112	8-719-911-19	DIODE 1SS119	
<IC>			
IC104	8-759-800-81	IC LA7016	
IC105	8-759-800-81	IC LA7016	
IC106	8-759-710-31	IC NJM2243S	
IC107	8-759-800-81	IC LA7016	
IC108	8-759-240-11	IC TC4011BP	
<TRANSISTOR>			
Q101	8-729-900-36	TRANSISTOR DTC124ES	
Q103	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q104	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q110	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q111	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q112	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q114	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q115	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q116	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q120	8-729-900-65	TRANSISTOR DTA144ES	
Q121	8-729-900-65	TRANSISTOR DTA144ES	
<CONNECTOR>			
QB6	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
<RESISTOR>			
R133	1-249-405-11	CARBON 100 5% 1/4W	
R134	1-249-433-11	CARBON 22K 5% 1/4W	
R135	1-249-433-11	CARBON 22K 5% 1/4W	
R137	1-249-433-11	CARBON 22K 5% 1/4W	
R138	1-249-433-11	CARBON 22K 5% 1/4W	
R139	1-249-405-11	CARBON 100 5% 1/4W	
R140	1-249-433-11	CARBON 22K 5% 1/4W	
R141	1-249-433-11	CARBON 22K 5% 1/4W	
R142	1-249-433-11	CARBON 22K 5% 1/4W	
R143	1-249-433-11	CARBON 22K 5% 1/4W	
R144	1-249-412-11	CARBON 390 5% 1/4W	
R145	1-249-405-11	CARBON 100 5% 1/4W	
R146	1-249-436-11	CARBON 39K 5% 1/4W	
R147	1-249-435-11	CARBON 33K 5% 1/4W	
R149	1-249-433-11	CARBON 22K 5% 1/4W	
R150	1-249-433-11	CARBON 22K 5% 1/4W	
R151	1-249-429-11	CARBON 10K 5% 1/4W	
R152	1-249-429-11	CARBON 10K 5% 1/4W	
R153	1-249-417-11	CARBON 1K 5% 1/4W	
R154	1-249-422-11	CARBON 2.7K 5% 1/4W	
R155	1-215-383-00	METAL 27 1% 1/6W	
R161	1-215-397-00	METAL 100 1% 1/6W	
R162	1-215-397-00	METAL 100 1% 1/6W	

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Qc

Qd

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<VARIABLE RESISTOR>				IC103	8-759-901-38	IC SN74LS138N	
RV101	1-228-848-00	RES, VAR, CARBON 10K		IC104	8-759-901-36	IC SN74LS136N	
RV102	1-228-848-00	RES, VAR, CARBON 10K		IC105	8-759-900-11	IC SN74LS11N	
<SWITCH>				IC106	8-759-800-81	IC LA7016	
S101	1-570-145-11	SWITCH, SLIDE		IC107	8-759-933-23	IC BA236	
*****				<FILTER MODULE>			
*A-1270-248-A QD BOARD, COMPLETE (PVM-2042QM ONLY)				LP101	1-235-988-11	FILTER MODULE, LOW PASS	
*****				<TRANSISTOR>			
*3-682-419-01 HOLDER, P.C.B				Q101	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<CAPACITOR>				Q102	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C121	1-126-094-11	ELECT 4.7MF	20% 25V	Q103	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C124	1-101-004-00	CERAMIC 0.01MF	50V	Q104	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C125	1-124-477-11	ELECT 47MF	20% 16V	Q105	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C126	1-124-589-11	ELECT 47MF	20% 16V	Q106	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C127	1-101-004-00	CERAMIC 0.01MF	50V	Q107	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C128	1-124-589-11	ELECT 47MF	20% 16V	Q108	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C129	1-124-589-11	ELECT 47MF	20% 16V	Q109	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C130	1-124-584-00	ELECT 100MF	20% 10V	Q110	8-729-900-36	TRANSISTOR DTC124ES	
C131	1-161-021-11	CERAMIC 0.047MF	10% 25V	Q111	8-729-900-89	TRANSISTOR DTC144ES	
C132	1-102-963-00	CERAMIC 33PF	5% 50V	Q112	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C133	1-126-157-11	ELECT 10MF	20% 16V	Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C134	1-161-021-11	CERAMIC 0.047MF	10% 25V	Q114	8-729-900-36	TRANSISTOR DTC124ES	
C135	1-106-375-12	MYLAR 0.022MF	10% 100V	Q115	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C136	1-101-004-00	CERAMIC 0.01MF	50V	Q125	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C137	1-124-589-11	ELECT 47MF	20% 16V	Q131	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C138	1-124-589-11	ELECT 47MF	20% 16V	Q132	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C139	1-126-160-11	ELECT 1MF	20% 50V	Q135	8-729-900-65	TRANSISTOR DTA144ES	
C140	1-124-589-11	ELECT 47MF	20% 16V	<RESISTOR>			
C141	1-102-965-00	CERAMIC 39PF	5% 50V	R135	1-249-417-11	CARBON 1K 5% 1/4W	
C142	1-102-965-00	CERAMIC 39PF	5% 50V	R136	1-249-411-11	CARBON 330 5% 1/4W	
C143	1-102-965-00	CERAMIC 39PF	5% 50V	R137	1-249-418-11	CARBON 1.2K 5% 1/4W	
C144	1-126-094-11	ELECT 4.7MF	20% 25V	R138	1-249-421-11	CARBON 2.2K 5% 1/4W	
C145	1-161-021-11	CERAMIC 0.047MF	10% 25V	R139	1-249-424-11	CARBON 3.9K 5% 1/4W	
C146	1-124-589-11	ELECT 47MF	20% 16V	R140	1-249-417-11	CARBON 1K 5% 1/4W	
C147	1-124-589-11	ELECT 47MF	20% 16V	R141	1-249-425-11	CARBON 4.7K 5% 1/4W	
C148	1-126-157-11	ELECT 10MF	20% 16V	R142	1-249-435-11	CARBON 33K 5% 1/4W	
C149	1-130-728-00	FILM 0.0022MF	10% 50V	R143	1-249-435-11	CARBON 33K 5% 1/4W	
C150	1-130-483-00	MYLAR 0.01MF	5% 50V	R144	1-249-417-11	CARBON 1K 5% 1/4W	
C151	1-130-471-00	FILM 0.001MF	10% 50V	R145	1-249-411-11	CARBON 330 5% 1/4W	
C172	1-101-005-00	CERAMIC 0.022MF	50V	R146	1-249-417-11	CARBON 1K 5% 1/4W	
C173	1-136-169-00	FILM 0.22MF	5% 50V	R147	1-249-411-11	CARBON 330 5% 1/4W	
C174	1-102-965-00	CERAMIC 39PF	5% 50V	R148	1-249-429-11	CARBON 10K 5% 1/4W	
C174	1-102-965-00	CERAMIC 39PF	5% 50V	R149	1-249-425-11	CARBON 4.7K 5% 1/4W	
<DIODE>				R150	1-249-417-11	CARBON 1K 5% 1/4W	
D102	8-719-110-03	DIODE RD7.5ES-B2		R151	1-249-429-11	CARBON 10K 5% 1/4W	
D103	8-719-911-19	DIODE 1SS119		R152	1-249-429-11	CARBON 10K 5% 1/4W	
D104	8-719-911-19	DIODE 1SS119		R153	1-249-405-11	CARBON 100 5% 1/4W	
D105	8-719-911-19	DIODE 1SS119		R154	1-249-405-11	CARBON 100 5% 1/4W	
D106	8-719-109-85	DIODE RD5.1ES-B2		R155	1-249-433-11	CARBON 22K 5% 1/4W	
D107	8-719-109-85	DIODE RD5.1ES-B2		R156	1-249-433-11	CARBON 22K 5% 1/4W	
D113	8-719-911-19	DIODE 1SS119		R157	1-249-430-11	CARBON 12K 5% 1/4W	
D116	8-719-911-19	DIODE 1SS119		R158	1-249-417-11	CARBON 1K 5% 1/4W	
D116	8-719-911-19	DIODE 1SS119		R159	1-247-706-11	CARBON 330 5% 1/4W	
<IC>				R160	1-247-706-11	CARBON 330 5% 1/4W	
IC102	8-759-900-09	IC SN74LS09N		R161	1-247-706-11	CARBON 330 5% 1/4W	
				R162	1-249-426-11	CARBON 5.6K 5% 1/4W	
				R163	1-249-421-11	CARBON 2.2K 5% 1/4W	
				R164	1-249-421-11	CARBON 2.2K 5% 1/4W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
R165	1-249-425-11	CARBON 4.7K 5% 1/4W	
R166	1-249-425-11	CARBON 4.7K 5% 1/4W	
R167	1-247-721-11	CARBON 4.7K 5% 1/4W	
R168	1-249-421-11	CARBON 2.2K 5% 1/4W	
R169	1-249-433-11	CARBON 22K 5% 1/4W	
R170	1-249-437-11	CARBON 47K 5% 1/4W	
R171	1-247-725-11	CARBON 10K 5% 1/4W	
R172	1-249-405-11	CARBON 100 5% 1/4W	
R173	1-247-716-11	CARBON 1.8K 5% 1/4W	
R174	1-249-432-11	CARBON 18K 5% 1/4W	
R175	1-249-408-11	CARBON 180 5% 1/4W	
R176	1-249-437-11	CARBON 47K 5% 1/4W	
R178	1-249-418-11	CARBON 1.2K 5% 1/4W	
R179	1-247-713-11	CARBON 1K 5% 1/4W	
R220	1-249-429-11	CARBON 10K 5% 1/4W	
R221	1-249-437-11	CARBON 47K 5% 1/4W	
R222	1-249-437-11	CARBON 47K 5% 1/4W	
R223	1-249-417-11	CARBON 1K 5% 1/4W	
R224	1-249-429-11	CARBON 10K 5% 1/4W	
R225	1-249-425-11	CARBON 4.7K 5% 1/4W	
R226	1-249-409-11	CARBON 220 5% 1/4W	
R231	1-249-432-11	CARBON 18K 5% 1/4W	
R235	1-249-425-11	CARBON 4.7K 5% 1/4W	
R236	1-249-417-11	CARBON 1K 5% 1/4W	
R237	1-249-420-11	CARBON 1.8K 5% 1/4W	
R241	1-249-408-11	CARBON 180 5% 1/4W	
R242	1-249-405-11	CARBON 100 5% 1/4W	
R244	1-249-405-11	CARBON 100 5% 1/4W	
R260	1-249-433-11	CARBON 22K 5% 1/4W	
R261	1-249-433-11	CARBON 22K 5% 1/4W	
R263	1-249-405-11	CARBON 100 5% 1/4W	
R299	1-249-420-11	CARBON 1.8K 5% 1/4W	
<VARIABLE RESISTOR>			
RV103	1-228-995-00	RES. ADJ, CARBON 22K	
<SWITCH>			
S102	1-553-977-41	SWITCH, SLIDE	

*A-1270-249 A QE BOQRD, COMPLETE (PVM-2042QM ONLY)			

<CAPACITOR>			
C152	1-101-004-00	CERAMIC 0.01MF 50V	
C154	1-123-875-11	ELECT 10MF 20% 50V	
C155	1-124-499-11	ELECT 1MF 20% 50V	
C156	1-124-499-11	ELECT 1MF 20% 50V	
C157	1-126-160-11	ELECT 1MF 20% 50V	
C158	1-124-477-11	ELECT 47MF 20% 25V	
C159	1-126-160-11	ELECT 1MF 20% 50V	
C160	1-124-499-11	ELECT 1MF 20% 50V	
C161	1-124-477-11	ELECT 47MF 20% 16V	
C162	1-124-477-11	ELECT 47MF 20% 16V	
C163	1-124-477-11	ELECT 47MF 20% 16V	
C164	1-161-021-11	CERAMIC 0.047MF 10% 25V	
C165	1-124-477-11	ELECT 47MF 20% 16V	
C166	1-124-477-11	ELECT 47MF 20% 16V	
C167	1-124-477-11	ELECT 47MF 20% 16V	
C168	1-124-589-11	ELECT 47MF 20% 16V	

REF.NO.	PART NO.	DESCRIPTION	REMARK
C169	1-161-021-11	CERAMIC 0.047MF 10% 25V	
C170	1-124-477-11	ELECT 47MF 20% 25V	
C171	1-124-925-11	ELECT 2.2MF 20% 50V	
<DIODE>			
D108	8-719-911-19	DIODE 1SS119	
D109	8-719-911-19	DIODE 1SS119	
D110	8-719-911-19	DIODE 1SS119	
D111	8-719-911-19	DIODE 1SS119	
D112	8-719-911-19	DIODE 1SS119	
D114	8-719-911-19	DIODE 1SS119	
D115	8-719-911-19	DIODE 1SS119	
<IC>			
IC108	8-759-800-81	IC LA7016	
IC109	8-759-800-81	IC LA7016	
IC110	8-759-800-81	IC LA7016	
IC111	8-759-710-31	IC NJM2243S	
<TRANSISTOR>			
Q116	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q117	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q118	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q119	8-729-900-36	TRANSISTOR DTC124ES	
Q120	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q121	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q127	8-729-900-65	TRANSISTOR DTA144ES	
<CONNECTOR>			
QE1	*1-564-515-11	PLUG, CONNECTOR 12P	
QE2	*1-564-516-11	PLUG, CONNECTOR 13P	
QE3	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
<RESISTOR>			
R180	1-249-405-11	CARBON 100 5% 1/4W	
R181	1-249-412-11	CARBON 390 5% 1/4W	
R182	1-249-417-11	CARBON 1K 5% 1/4W	
R183	1-249-436-11	CARBON 39K 5% 1/4W	
R184	1-249-435-11	CARBON 33K 5% 1/4W	
R185	1-249-405-11	CARBON 100 5% 1/4W	
R186	1-249-433-11	CARBON 22K 5% 1/4W	
R187	1-249-433-11	CARBON 22K 5% 1/4W	
R188	1-249-405-11	CARBON 100 5% 1/4W	
R189	1-249-433-11	CARBON 22K 5% 1/4W	
R190	1-249-433-11	CARBON 22K 5% 1/4W	
R192	1-249-437-11	CARBON 47K 5% 1/4W	
R193	1-249-429-11	CARBON 10K 5% 1/4W	
R194	1-249-433-11	CARBON 22K 5% 1/4W	
R195	1-249-433-11	CARBON 22K 5% 1/4W	
R196	1-249-405-11	CARBON 100 5% 1/4W	
R197	1-249-421-11	CARBON 2.2K 5% 1/4W	
R198	1-249-421-11	CARBON 2.2K 5% 1/4W	
R199	1-249-441-11	CARBON 100K 5% 1/4W	
R200	1-249-435-11	CARBON 33K 5% 1/4W	
R201	1-249-428-11	CARBON 8.2K 5% 1/4W	
R202	1-249-417-11	CARBON 1K 5% 1/4W	
R203	1-249-429-11	CARBON 10K 5% 1/4W	
R204	1-249-428-11	CARBON 8.2K 5% 1/4W	
R205	1-249-405-11	CARBON 100 5% 1/4W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R206	1-249-429-11	CARBON	10K 5% 1/4W	C314	1-102-074-00	CERAMIC	0.001MF 10% 50V
R207	1-249-429-11	CARBON	10K 5% 1/4W	C315	1-124-927-11	ELECT	4.7MF 20% 50V
R208	1-249-417-11	CARBON	1K 5% 1/4W	C316	1-136-161-00	FILM	0.047MF 5% 50V
R209	1-249-405-11	CARBON	100 5% 1/4W	C317	1-136-161-00	FILM	0.047MF 5% 50V
R210	1-249-433-11	CARBON	22K 5% 1/4W	C318	1-136-165-00	FILM	0.1MF 5% 50V
R211	1-249-433-11	CARBON	22K 5% 1/4W	C319	1-101-004-00	CERAMIC	0.01MF 50V
R212	1-249-433-11	CARBON	22K 5% 1/4W	C320	1-124-499-11	ELECT	1MF 20% 50V
R213	1-249-433-11	CARBON	22K 5% 1/4W	C321	1-124-477-11	ELECT	47MF 20% 16V
R215	1-249-405-11	CARBON	100 5% 1/4W	C322	1-124-902-00	ELECT	0.47MF 20% 50V
R216	1-249-411-11	CARBON	330 5% 1/4W	C323	1-101-361-00	CERAMIC	150PF 5% 50V
R217	1-249-433-11	CARBON	22K 5% 1/4W	C324	1-124-477-11	ELECT	47MF 20% 16V
R251	1-249-417-11	CARBON	1K 5% 1/4W	C325	1-101-361-00	CERAMIC	150PF 5% 50V
R252	1-249-417-11	CARBON	1K 5% 1/4W	C326	1-124-477-11	ELECT	47MF 20% 16V
R253	1-249-417-11	CARBON	1K 5% 1/4W	C327	1-124-477-11	ELECT	47MF 20% 16V
R265	1-249-415-11	CARBON	680 5% 1/4W	C328	1-124-009-11	ELECT	47MF 20% 25V
*****				C329	1-124-477-11	ELECT	47MF 20% 16V
*A-1296-593-A A BOARD, COMPLETE				C330	1-101-880-00	CERAMIC	47PF 5% 50V
*****				C331	1-101-004-00	CERAMIC	0.01MF 50V
*4-329-153-00 HEAT SINK, V OUT				C332	1-102-971-00	CERAMIC	82PF 5% 50V
*4-341-751-01 EYELET (EY6,EY7,EY8,EY9,EY10,EY11,EY14,				C333	1-136-165-00	FILM	0.1MF 5% 50V
EY17,EY18,EY19,EY20,EY21,EY22,EY23,				C334	1-136-173-00	FILM	0.47MF 5% 50V
EY24)				C335	1-136-173-00	FILM	0.47MF 5% 50V
*4-341-752-01 EYELET (EY1,EY2,EY3,EY4)				C336	1-102-971-00	CERAMIC	82PF 5% 50V
*4-363-404-00 HOLDER, IC				C337	1-124-477-11	ELECT	47MF 20% 16V
4-363-414-00 SPACER, MICA				C338	1-124-477-11	ELECT	47MF 20% 16V
				C339	1-124-477-11	ELECT	47MF 20% 16V
<CONNECTOR>				C340	1-124-477-11	ELECT	47MF 20% 16V
A1	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P		C341	1-124-477-11	ELECT	47MF 20% 16V
A2	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		C342	1-124-477-11	ELECT	47MF 20% 16V
A3	*1-565-498-11	CONNECTOR, BOARD TO BOARD 7P		C343	1-124-477-11	ELECT	47MF 20% 16V
A4	*1-564-596-11	PLUG, CONNECTOR 15P		C344	1-124-477-11	ELECT	47MF 20% 16V
A5	*1-564-596-11	PLUG, CONNECTOR 15P		C345	1-102-949-00	CERAMIC	12PF 5% 50V
A6	*1-565-497-11	CONNECTOR, BOARD TO BOARD 6P		C346	1-126-233-11	ELECT	22MF 20% 50V
A7	*1-565-498-11	CONNECTOR, BOARD TO BOARD 7P		C347	1-123-875-11	ELECT	10MF 20% 50V
A8	*1-565-506-11	CONNECTOR, BOARD TO BOARD 15P		C348	1-101-004-00	CERAMIC	0.01MF 50V
A9	*1-565-506-11	CONNECTOR, BOARD TO BOARD 15P		C349	1-124-120-11	ELECT	220MF 20% 16V
A10	*1-564-596-11	PLUG, CONNECTOR 15P		C350	1-101-884-00	CERAMIC	56PF 5% 50V
A11	*1-564-596-11	PLUG, CONNECTOR 15P		C351	1-102-106-00	CERAMIC	100PF 10% 50V
A13	*1-568-105-11	HOUSING, CONNECTOR 10P		C352	1-102-125-00	CERAMIC	0.0047MF 10% 50V
A14	*1-568-105-11	HOUSING, CONNECTOR 10P		C353	1-161-021-11	CERAMIC	0.047MF 10% 25V
A16	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		C401	1-136-153-00	FILM	0.01MF 5% 50V
A17	*1-565-496-11	CONNECTOR, BOARD TO BOARD 5P		C402	1-136-165-00	FILM	0.1MF 5% 50V
A18	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P		C403	1-136-165-00	FILM	0.1MF 5% 50V
A20	*1-564-507-11	PLUG, CONNECTOR 4P		C404	1-136-169-00	FILM	0.22MF 5% 50V
A22	*1-564-505-11	PLUG, CONNECTOR 2P		C405	1-136-169-00	FILM	0.22MF 5% 50V
<CAPACITOR>				C406	1-136-169-00	FILM	0.22MF 5% 50V
C300	1-123-875-11	ELECT	10MF 20% 50V	C407	1-136-169-00	FILM	0.22MF 5% 50V
C301	1-124-477-11	ELECT	47MF 20% 16V	C408	1-136-169-00	FILM	0.22MF 5% 50V
C302	1-101-884-00	CERAMIC	56PF 5% 50V	C409	1-136-169-00	FILM	0.22MF 5% 50V
C303	1-136-173-00	FILM	0.47MF 5% 50V	C410	1-124-499-11	ELECT	1MF 20% 50V
C304	1-101-884-00	CERAMIC	56PF 5% 50V	C411	1-124-499-11	ELECT	1MF 20% 50V
C305	1-136-173-00	FILM	0.47MF 5% 50V	C412	1-124-463-00	ELECT	0.1MF 20% 50V
C306	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C413	1-124-463-00	ELECT	0.1MF 20% 50V
C307	1-124-477-11	ELECT	47MF 20% 16V	C414	1-136-165-00	FILM	0.1MF 5% 50V
C308	1-124-477-11	ELECT	47MF 20% 16V	C415	1-136-165-00	FILM	0.1MF 5% 50V
C309	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C416	1-126-233-11	ELECT	22MF 20% 50V
C310	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C417	1-136-161-00	FILM	0.047MF 5% 50V
C311	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C418	1-136-153-00	FILM	0.01MF 5% 50V
C312	1-123-875-11	ELECT	10MF 20% 50V	C419	1-130-479-00	MYLAR	0.0047MF 5% 50V
C313	1-102-074-00	CERAMIC	0.001MF 10% 50V	C420	1-136-161-00	FILM	0.047MF 5% 50V
				C421	1-136-153-00	FILM	0.01MF 5% 50V
				C422	1-130-479-00	MYLAR	0.0047MF 5% 50V
				C423	1-136-153-00	FILM	0.01MF 5% 50V

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C424	1-130-479-00	MYLAR	0.0047MF 5% 50V	C531	1-131-351-00	TANTALUM	4.7MF 10% 35V
C425	1-126-101-11	ELECT	100MF 20% 16V	C533	1-136-828-11	FILM	1.8MF 5% 200V
C426	1-136-161-00	FILM	0.047MF 5% 50V	C534	1-108-965-11	MYLAR	0.33MF 10% 200V
C427	1-126-101-11	ELECT	100MF 20% 16V	C535	1-123-946-00	ELECT	4.7MF 20% 250V
C428	1-126-101-11	ELECT	100MF 20% 16V	C536	1-136-540-11	FILM	0.82MF 5% 200V
C429	1-102-944-00	CERAMIC	7PF 1PF 50V	C537	1-102-002-00	CERAMIC	680PF 10% 500V
C431	1-102-816-00	CERAMIC	120PF 5% 50V	C538	1-108-626-11	MYLAR	0.01MF 10% 100V
C470	1-124-120-11	ELECT	220MF 20% 16V	C539	1-108-626-11	MYLAR	0.01MF 10% 100V
C471	1-124-120-11	ELECT	220MF 20% 16V	C540	1-106-347-00	MYLAR	0.0015MF 10% 100V
C472	1-101-004-00	CERAMIC	0.01MF 50V	C541	1-124-045-00	ELECT	4.7MF 20% 50V
C473	1-126-101-11	ELECT	100MF 20% 16V	C542	1-123-875-11	ELECT	10MF 20% 50V
C474	1-101-004-00	CERAMIC	0.01MF 50V	C543	1-124-927-11	ELECT	4.7MF 20% 50V
C475	1-101-004-00	CERAMIC	0.01MF 50V	C544	1-124-190-00	ELECT	680MF 10% 25V
C476	1-101-888-00	CERAMIC	68PF 5% 50V	C545	1-108-693-11	MYLAR	0.012MF 10% 200V
C477	1-101-006-00	CERAMIC	0.047MF 50V	C546	1-102-030-00	CERAMIC	330PF 10% 500V
C478	1-101-004-00	CERAMIC	0.01MF 50V	C547	1-124-342-00	ELECT	3.3MF 20% 160V
C479	1-126-101-11	ELECT	100MF 20% 16V	C548	1-102-030-00	CERAMIC	330PF 10% 500V
C480	1-101-004-00	CERAMIC	0.01MF 50V	C549	1-123-875-11	ELECT	10MF 20% 50V
C481	1-101-004-00	CERAMIC	0.01MF 50V	C550	1-102-244-00	CERAMIC	220PF 10% 500V
C482	1-126-101-11	ELECT	100MF 20% 16V	C551	1-124-360-00	ELECT	1000MF 20% 16V
C483	1-124-120-11	ELECT	220MF 20% 16V	C552	1-124-499-11	ELECT	1MF 20% 50V
C484	1-101-004-00	CERAMIC	0.01MF 50V	C553	1-108-626-11	MYLAR	0.01MF 10% 100V
C485	1-126-101-11	ELECT	100MF 20% 16V	C554	1-124-499-11	ELECT	1MF 20% 50V
C486	1-101-004-00	CERAMIC	0.01MF 50V	C555	1-108-633-11	MYLAR	0.039MF 10% 100V
C487	1-101-004-00	CERAMIC	0.01MF 50V	C556	1-136-173-00	FILM	0.47MF 5% 50V
C488	1-124-120-11	ELECT	220MF 20% 16V	C557	1-124-902-00	ELECT	0.47MF 20% 50V
C489	1-124-927-11	ELECT	4.7MF 20% 50V	C558	1-131-356-00	TANTALUM	3.3MF 10% 25V
C491	1-101-004-00	CERAMIC	0.01MF 50V	C559	1-123-875-11	ELECT	10MF 20% 50V
C492	1-124-120-11	ELECT	220MF 20% 16V	C560	1-136-161-00	FILM	0.047MF 5% 50V
C493	1-101-004-00	CERAMIC	0.01MF 50V	C561	1-102-973-00	CERAMIC	100PF 5% 50V
C494	1-124-120-11	ELECT	220MF 20% 16V	C562	1-130-471-00	FILM	0.001MF 5% 50V
C495	1-101-880-00	CERAMIC	47PF 5% 50V	C563	1-123-875-11	ELECT	10MF 20% 50V
C496	1-126-101-11	ELECT	100MF 20% 16V	C564	1-102-978-00	CERAMIC	220PF 5% 50V
C497	1-124-120-11	ELECT	220MF 20% 16V	C565	1-126-101-11	ELECT	100MF 20% 16V
C498	1-124-925-11	ELECT	2.2MF 20% 50V	C566	1-124-499-11	ELECT	1MF 20% 50V
C500	1-101-884-00	CERAMIC	56PF 5% 50V	C567	1-123-875-11	ELECT	10MF 20% 50V
C501	1-124-120-11	ELECT	220MF 20% 16V	C568	1-108-614-11	MYLAR	0.001MF 10% 100V
C502	1-124-927-11	ELECT	4.7MF 20% 50V	C569	1-130-736-11	FILM	0.01MF 5% 50V
C503	1-124-927-11	ELECT	4.7MF 20% 50V	C570	1-123-875-11	ELECT	10MF 20% 50V
C504	1-102-114-00	CERAMIC	470PF 10% 50V	C571	1-126-233-11	ELECT	22MF 20% 25V
C505	1-123-875-11	ELECT	10MF 20% 50V	C572	1-124-499-11	ELECT	1MF 20% 50V
C506	1-136-298-00	FILM	0.0033MF 5% 100V	C573	1-123-875-11	ELECT	10MF 20% 50V
C507	1-106-351-00	MYLAR	0.0022MF 5% 100V	C574	1-126-101-11	ELECT	100MF 20% 16V
C508	1-108-626-11	MYLAR	0.01MF 10% 100V	C575	1-102-978-00	CERAMIC	220PF 5% 50V
C509	1-106-375-12	MYLAR	0.022MF 10% 100V	C576	1-161-021-11	CERAMIC	0.047MF 10% 25V
C510	1-108-626-11	MYLAR	0.01MF 10% 100V	C577	1-123-875-11	ELECT	10MF 20% 50V
C511	1-124-902-00	ELECT	0.47MF 20% 50V	C578	1-124-477-11	ELECT	47MF 20% 16V
C512	1-102-030-00	CERAMIC	330PF 10% 500V	C579	1-124-477-11	ELECT	47MF 20% 16V
C513 Δ	1-136-333-51	FILM	0.027MF 5% 630V	C580	1-124-499-11	ELECT	1MF 20% 50V
C514 Δ	1-136-545-11	FILM	0.0078MF 3% 2KV	C581	1-124-478-11	ELECT	100MF 20% 25V
C516 Δ	1-162-116-51	CERAMIC	680PF 10% 2KV	C583	1-126-233-11	ELECT	22MF 20% 50V
C517	1-108-692-11	MYLAR	0.01MF 10% 200V	C584	1-126-233-11	ELECT	22MF 20% 50V
C518	1-126-104-11	ELECT	470MF 20% 35V	C585	1-102-110-00	CERAMIC	220PF 10% 50V
C519	1-124-120-11	ELECT	220MF 20% 25V	C590	1-126-233-11	ELECT	22MF 20% 50V
C520	1-124-494-00	ELECT	33MF 160V	C591	1-124-925-11	ELECT	2.2MF 20% 50V
C521	1-102-212-00	CERAMIC	820PF 10% 500V	C599 Δ	1-136-596-11	FILM	0.0065MF 3% 2KV
C522	1-102-212-00	CERAMIC	820PF 10% 500V	C801	1-101-004-00	CERAMIC	0.01MF 5% 50V
C524	1-108-700-11	MYLAR	0.047MF 10% 200V	C802	1-101-361-00	CERAMIC	150PF 5% 50V
C525	1-108-634-11	MYLAR	0.047MF 10% 100V	C803	1-102-976-00	CERAMIC	180PF 5% 50V
C526	1-124-477-11	ELECT	47MF 20% 16V	C804	1-126-233-11	ELECT	22MF 20% 50V
C527	1-124-902-00	ELECT	0.47MF 20% 50V	C805	1-102-125-00	CERAMIC	0.0047MF 10% 50V
C528	1-124-902-00	ELECT	0.47MF 20% 50V	C806	1-101-884-00	CERAMIC	56PF 5% 50V
C529	1-126-233-11	ELECT	22MF 20% 50V	C807	1-130-736-11	FILM	0.01MF 5% 50V
C530	1-123-875-11	ELECT	10MF 20% 50V				

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The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	
C808	1-124-120-11	ELECT	220MF	20%	16V	D530	8-729-901-83	DIODE 1SS83
C809	1-101-004-00	CERAMIC	0.01MF		50V	D531	8-719-911-19	DIODE 1SS119
C810	1-108-620-11	MYLAR	0.0033MF	10%	100V	D599	8-719-928-08	DIODE ERD28-08S
C811	1-124-927-11	ELECT	4.7MF	20%	50V	D801	8-719-911-19	DIODE 1SS119
C1001	1-126-101-11	ELECT	100MF	20%	16V	D802	8-719-911-19	DIODE 1SS119
C1002	1-123-875-11	ELECT	10MF	20%	50V	D1001	8-719-911-19	DIODE 1SS119
C1003	1-102-125-00	CERAMIC	0.0047MF	10%	50V	D1002	8-719-911-19	DIODE 1SS119
C1004	1-124-464-11	ELECT	0.22MF	20%	50V	D1003	8-719-911-19	DIODE 1SS119
C1005	1-123-875-11	ELECT	10MF	20%	50V	D1010	8-719-120-64	DIODE RD5.6ES-L1
C1006	1-123-875-11	ELECT	10MF	20%	50V	D1011	8-719-110-08	DIODE RD8.2ES-B2
C1007	1-108-634-11	MYLAR	0.047MF	10%	100V	D1012	8-719-911-55	DIODE UOGG
C1008	1-126-101-11	ELECT	100MF	20%	16V	D1013	8-719-110-37	DIODE RD13ES-B3
C1009	1-126-103-11	ELECT	470MF	20%	16V	D1014	8-729-936-56	DIODE DAN209S
C1010	1-126-101-11	ELECT	100MF	20%	16V			
C1011	1-124-477-11	ELECT	47MF	20%	16V			
C1012	1-124-120-11	ELECT	220MF	20%	16V			
C1013	1-124-478-11	ELECT	100MF	20%	25V			
		<DIODE>						
D302	8-719-911-19	DIODE 1SS119						
D303	8-719-911-19	DIODE 1SS119						
D304	8-719-911-19	DIODE 1SS119						
D305	8-719-911-19	DIODE 1SS119						
D306	8-719-911-19	DIODE 1SS119						
D307	8-719-911-19	DIODE 1SS119						
D309	8-719-911-19	DIODE 1SS119						
D311	8-719-911-19	DIODE 1SS119						
D312	8-719-911-19	DIODE 1SS119						
D313	8-719-911-19	DIODE 1SS119						
D314	8-719-911-19	DIODE 1SS119						
D400	8-719-121-40	DIODE RD10ES-L3						
D401	8-719-911-19	DIODE 1SS119						
D402	8-719-120-27	DIODE RD4.3ES-L2						
D403	8-719-109-93	DIODE RD6.2ES-B2						
D404	8-719-911-19	DIODE 1SS119						
D405	8-719-911-19	DIODE 1SS119						
D406	8-719-110-36	DIODE RD13ES-B2						
D501	8-719-911-19	DIODE 1SS119						
D502	8-719-971-20	DIODE ERC38-06						
D504	8-719-901-58	DIODE RGP15J						
D505	8-719-901-58	DIODE RGP15J						
D507	8-719-305-15	DIODE GH3F						
D508	8-719-928-08	DIODE ERD28-08S						
D509	8-719-109-89	DIODE RD5.6ES-B2						
D510	8-719-190-00	DIODE RD24E-BZ7						
D511	8-719-200-02	DIODE 10E2						
D512	8-719-200-02	DIODE 10E2						
D513	8-719-911-19	DIODE 1SS119						
D514	8-719-300-76	DIODE RH-1A						
D515	8-719-300-76	DIODE RH-1A						
D516	8-719-200-02	DIODE 10E2						
D517	8-719-911-19	DIODE 1SS119						
D518	8-719-200-02	DIODE 10E2						
D519	8-719-911-19	DIODE 1SS119						
D520	8-719-911-19	DIODE 1SS119						
D521	8-719-911-19	DIODE 1SS119						
D522	8-719-911-19	DIODE 1SS119						
D523	8-719-911-19	DIODE 1SS119						
D524	8-719-911-19	DIODE 1SS119						
D526	8-719-911-19	DIODE 1SS119						
D527	8-719-911-19	DIODE 1SS119						
D528	8-719-911-19	DIODE 1SS119						
D529	8-719-911-19	DIODE 1SS119						
		<IC>						
IC301	8-759-204-21	IC TA7193P						
IC302	1-808-627-12	ACC BLOCK ACC-1						
IC303	8-759-710-31	IC NJM2243S						
IC304	1-235-534-11	CONTROL MODULE, PICTURE						
IC305	8-749-920-72	IC BX-7573						
IC306	8-759-420-08	IC AN5613						
IC307	1-808-629-11	MODULE, BLUE ONLY BOM-1						
IC308	1-808-626-11	MODULE, GAIN/BIAS GBM-1						
IC309	8-759-208-08	IC TC4052BPHB						
IC311	8-759-800-81	IC LA7016						
IC312	8-759-800-81	IC LA7016						
IC401	8-752-030-31	IC CXA1024S						
IC501	8-759-100-60	IC UPC1377C						
IC502	8-759-945-58	IC RC4558P						
IC503	8-749-920-74	IC BX7574						
IC504	8-759-345-38	IC HD14538BP						
IC505	8-759-982-13	IC RC7812FA						
IC1001	8-759-420-04	IC AN5265						
		<COIL>						
L300	1-410-470-11	INDUCTOR	10UH					
L301	1-410-470-11	INDUCTOR	10UH					
L302	1-410-470-11	INDUCTOR	10UH					
L303	1-410-471-11	INDUCTOR	12UH					
L304	1-408-406-00	INDUCTOR	5.6UH					
L306	1-410-470-11	INDUCTOR	10UH					
L307	1-410-473-11	INDUCTOR	18UH					
L495	1-421-013-00	COIL (HORIZONTAL CHOKE)	25UH					
L501	1-459-155-00	COIL (WITH CORE)	45UH					
L503	1-410-666-31	INDUCTOR	18UH					
L504	1-407-365-00	COIL, CHOKE						
L505	1-407-365-00	COIL, CHOKE						
L506	1-408-238-00	INDUCTOR	3.9MMH					
L507 Δ	1-459-232-11	COIL, CORE						
L510 Δ	1-459-075-11	COIL, DYNAMIC CONVERSION CHOKE						
L511	1-459-059-00	COIL, DUST CORE						
L512	1-408-247-00	INDUCTOR	33MMH					
L513	1-459-104-00	COIL, DUST CORE						
L514	1-410-686-11	INDUCTOR	1MMH					
L515	1-410-510-11	INDUCTOR	12UH					
L801	1-410-470-11	INDUCTOR	10UH					
L802	1-410-089-21	INDUCTOR	15MMH					

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSISTOR>				Q505	8-729-309-08	TRANSISTOR 2SC1890A	
Q300	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q506	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q301	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q507	8-729-313-42	TRANSISTOR 2SD1134	
Q302	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q508	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q303	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q509	8-729-195-82	TRANSISTOR 2SC2958	
Q304	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q510	8-729-122-03	TRANSISTOR 2SA1220A-P	
Q305	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q511	8-729-169-02	TRANSISTOR 2SC2690A	
Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q512	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q307	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q513	8-729-900-63	TRANSISTOR DTA124ES	
Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q514	8-729-900-36	TRANSISTOR DTC124ES	
Q309	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q515	8-729-900-36	TRANSISTOR DTC124ES	
Q310	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q516	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q311	8-729-900-89	TRANSISTOR DTC144ES		Q517	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q312	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q518	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q313	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q519	8-729-900-36	TRANSISTOR DTC124ES	
Q314	8-729-900-65	TRANSISTOR DTA144ES		Q520	8-729-900-63	TRANSISTOR DTA124ES	
Q315	8-729-900-89	TRANSISTOR DTC144ES		Q521	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q316	8-729-900-89	TRANSISTOR DTC144ES		Q522	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q317	8-729-900-89	TRANSISTOR DTC144ES		Q523	8-729-900-36	TRANSISTOR DTC124ES	
Q318	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q524	8-729-900-69	TRANSISTOR DTA144WS	
Q319	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q525	8-729-900-36	TRANSISTOR DTC124ES	
Q320	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q526	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q321	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q528	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q322	8-729-900-89	TRANSISTOR DTC144ES		Q529	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q323	8-729-900-89	TRANSISTOR DTC144ES		Q530	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q324	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q531	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q325	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q532	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q326	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q533	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q327	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q534	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q328	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q550	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q329	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q551	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q330	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q331	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q802	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q332	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q803	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q333	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q804	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q334	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q805	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q335	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q806	8-729-900-36	TRANSISTOR DTC124ES	
Q336	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q807	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q337	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q1001	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q338	8-729-900-89	TRANSISTOR DTC144ES		Q1002	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q400	8-729-177-33	TRANSISTOR 2SD773-4		Q1003	8-729-140-96	TRANSISTOR 2SD774-34	
Q401	8-729-900-36	TRANSISTOR DTC124ES		Q1004	8-729-140-96	TRANSISTOR 2SD774-34	
Q402	8-729-900-36	TRANSISTOR DTC124ES		Q1005	8-729-122-03	TRANSISTOR 2SA1220A-P	
Q403	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q1006	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q404	8-729-119-78	TRANSISTOR 2SC2785-HFE		<RESISTOR>			
Q405	8-729-119-78	TRANSISTOR 2SC2785-HFE		R300	1-249-405-11	CARBON 100 5% 1/4W	
Q406	8-729-119-78	TRANSISTOR 2SC2785-HFE		R301	1-249-405-11	CARBON 100 5% 1/4W	
Q407	8-729-119-78	TRANSISTOR 2SC2785-HFE		R302	1-247-721-11	CARBON 4.7K 5% 1/4W	
Q408	8-729-119-78	TRANSISTOR 2SC2785-HFE		R303	1-249-426-11	CARBON 5.6K 5% 1/4W	
Q409	8-729-119-78	TRANSISTOR 2SC2785-HFE		R304	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q410	8-729-900-89	TRANSISTOR DTC144ES		R305	1-249-429-11	CARBON 10K 5% 1/4W	
Q411	8-729-900-89	TRANSISTOR DTC144ES		R306	1-249-405-11	CARBON 100 5% 1/4W	
Q412	8-729-119-76	TRANSISTOR 2SA1175-HFE		R307	1-247-887-00	CARBON 220K 5% 1/4W	
Q413	8-729-119-78	TRANSISTOR 2SC2785-HFE		R308	1-249-429-11	CARBON 10K 5% 1/4W	
Q414	8-729-119-78	TRANSISTOR 2SC2785-HFE		R309	1-249-405-11	CARBON 100 5% 1/4W	
Q415	8-729-900-36	TRANSISTOR DTC124ES		R310	1-247-887-00	CARBON 220K 5% 1/4W	
Q416	8-729-900-36	TRANSISTOR DTC124ES		R311	1-249-435-11	CARBON 33K 5% 1/4W	
Q501	8-729-800-35	TRANSISTOR 2SD1397		R312	1-249-431-11	CARBON 15K 5% 1/4W	
Q502	8-729-119-80	TRANSISTOR 2SC2688 LK		R313	1-249-405-11	CARBON 100 5% 1/4W	
Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE		R314	1-249-405-11	CARBON 100 5% 1/4W	
Q504	8-729-119-76	TRANSISTOR 2SA1175-HFE		R315	1-249-413-11	CARBON 470 5% 1/4W	
				R316	1-249-413-11	CARBON 470 5% 1/4W	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R317	1-249-414-11	CARBON	560 5% 1/4W	R381	1-249-431-11	CARBON	15K 5% 1/4W
R318	1-249-422-11	CARBON	2.7K 5% 1/4W	R382	1-249-408-11	CARBON	180 5% 1/4W
R319	1-249-416-11	CARBON	820 5% 1/4W	R383	1-249-413-11	CARBON	470 5% 1/4W
R320	1-249-415-11	CARBON	680 5% 1/4W	R384	1-249-413-11	CARBON	470 5% 1/4W
R321	1-249-411-11	CARBON	330 5% 1/4W	R385	1-249-411-11	CARBON	330 5% 1/4W
R322	1-249-409-11	CARBON	220 5% 1/4W	R386	1-249-415-11	CARBON	680 5% 1/4W
R323	1-249-409-11	CARBON	220 5% 1/4W	R387	1-249-405-11	CARBON	100 5% 1/4W
R324	1-249-417-11	CARBON	1K 5% 1/4W	R388	1-249-423-11	CARBON	3.3K 5% 1/4W
R325	1-249-405-11	CARBON	100 5% 1/4W	R389	1-249-417-11	CARBON	1K 5% 1/4W
R326	1-249-409-11	CARBON	220 5% 1/4W	R390	1-249-433-11	CARBON	22K 5% 1/4W
R327	1-249-417-11	CARBON	1K 5% 1/4W	R391	1-249-433-11	CARBON	22K 5% 1/4W
R328	1-249-434-11	CARBON	27K 5% 1/4W	R392	1-249-433-11	CARBON	22K 5% 1/4W
R329	1-249-433-11	CARBON	22K 5% 1/4W	R393	1-249-403-11	CARBON	68 5% 1/4W
R330	1-249-433-11	CARBON	22K 5% 1/4W	R394	1-249-409-11	CARBON	220 5% 1/4W
R331	1-249-433-11	CARBON	22K 5% 1/4W	R395	1-249-417-11	CARBON	1K 5% 1/4W
R332	1-249-405-11	CARBON	100 5% 1/4W	R396	1-249-433-11	CARBON	22K 5% 1/4W
R333	1-249-435-11	CARBON	33K 5% 1/4W	R397	1-249-405-11	CARBON	100 5% 1/4W
R334	1-249-432-11	CARBON	18K 5% 1/4W	R398	1-249-405-11	CARBON	100 5% 1/4W
R335	1-247-700-11	CARBON	100 5% 1/4W	R399	1-247-718-11	CARBON	2.7K 5% 1/4W
R336	1-249-417-11	CARBON	1K 5% 1/4W	R400	1-249-413-11	CARBON	470 5% 1/4W
R337	1-249-410-11	CARBON	270 5% 1/4W	R401	1-249-413-11	CARBON	470 5% 1/4W
R338	1-249-421-11	CARBON	2.2K 5% 1/4W	R402	1-249-416-11	CARBON	820 5% 1/4W
R339	1-249-405-11	CARBON	100 5% 1/4W	R403	1-249-411-11	CARBON	330 5% 1/4W
R340	1-249-434-11	CARBON	27K 5% 1/4W	R404	1-249-405-11	CARBON	100 5% 1/4W
R341	1-249-434-11	CARBON	27K 5% 1/4W	R405	1-249-422-11	CARBON	2.7K 5% 1/4W
R342	1-249-418-11	CARBON	1.2K 5% 1/4W	R406	1-249-413-11	CARBON	470 5% 1/4W
R343	1-249-440-11	CARBON	82K 5% 1/4W	R407	1-249-413-11	CARBON	470 5% 1/4W
R344	1-249-428-11	CARBON	8.2K 5% 1/4W	R408	1-249-416-11	CARBON	820 5% 1/4W
R345	1-249-416-11	CARBON	820 5% 1/4W	R409	1-249-411-11	CARBON	330 5% 1/4W
R346	1-249-416-11	CARBON	820 5% 1/4W	R410	1-249-405-11	CARBON	100 5% 1/4W
R347	1-249-421-11	CARBON	2.2K 5% 1/4W	R411	1-249-422-11	CARBON	2.7K 5% 1/4W
R348	1-249-421-11	CARBON	2.2K 5% 1/4W	R412	1-249-419-11	CARBON	1.5K 5% 1/4W
R349	1-249-417-11	CARBON	1K 5% 1/4W	R413	1-249-417-11	CARBON	1K 5% 1/4W
R350	1-249-425-11	CARBON	4.7K 5% 1/4W	R414	1-249-429-11	CARBON	10K 5% 1/4W
R351	1-249-421-11	CARBON	2.2K 5% 1/4W	R415	1-249-417-11	CARBON	1K 5% 1/4W
R352	1-247-891-00	CARBON	330K 5% 1/4W	R416	1-249-429-11	CARBON	10K 5% 1/4W
R353	1-249-428-11	CARBON	8.2K 5% 1/4W	R417	1-249-421-11	CARBON	2.2K 5% 1/4W
R354	1-249-424-11	CARBON	3.9K 5% 1/4W	R418	1-249-439-11	CARBON	68K 5% 1/4W
R355	1-249-434-11	CARBON	27K 5% 1/4W	R419	1-249-433-11	CARBON	22K 5% 1/4W
R356	1-249-437-11	CARBON	47K 5% 1/4W	R420	1-249-426-11	CARBON	5.6K 5% 1/4W
R357	1-249-437-11	CARBON	47K 5% 1/4W	R421	1-249-437-11	CARBON	47K 5% 1/4W
R358	1-249-433-11	CARBON	22K 5% 1/4W	R422	1-249-437-11	CARBON	47K 5% 1/4W
R359	1-249-417-11	CARBON	1K 5% 1/4W	R423	1-249-405-11	CARBON	100 5% 1/4W
R360	1-249-413-11	CARBON	470 5% 1/4W	R424	1-249-437-11	CARBON	47K 5% 1/4W
R361	1-249-405-11	CARBON	100 5% 1/4W	R425	1-249-437-11	CARBON	47K 5% 1/4W
R362	1-249-410-11	CARBON	270 5% 1/4W	R426	1-249-434-11	CARBON	27K 5% 1/4W
R363	1-249-432-11	CARBON	18K 5% 1/4W	R427	1-249-429-11	CARBON	10K 5% 1/4W
R364	1-249-417-11	CARBON	1K 5% 1/4W	R428	1-249-425-11	CARBON	4.7K 5% 1/4W
R365	1-249-432-11	CARBON	18K 5% 1/4W	R429	1-249-405-11	CARBON	100 5% 1/4W
R366	1-249-437-11	CARBON	47K 5% 1/4W	R430	1-247-711-11	CARBON	680 5% 1/4W
R367	1-249-413-11	CARBON	470 5% 1/4W	R431	1-249-416-11	CARBON	820 5% 1/4W
R368	1-249-405-11	CARBON	100 5% 1/4W	R432	1-249-414-11	CARBON	560 5% 1/4W
R369	1-249-405-11	CARBON	100 5% 1/4W	R433	1-249-433-11	CARBON	22K 5% 1/4W
R370	1-249-417-11	CARBON	1K 5% 1/4W	R434	1-249-425-11	CARBON	4.7K 5% 1/4W
R371	1-249-461-11	CARBON	18K 5% 1/4W	R435	1-249-405-11	CARBON	100 5% 1/4W
R372	1-249-465-11	CARBON	47K 5% 1/4W	R436	1-249-423-11	CARBON	3.3K 5% 1/4W
R373	1-249-436-11	CARBON	39K 5% 1/4W	R437	1-249-411-11	CARBON	330 5% 1/4W
R374	1-249-432-11	CARBON	18K 5% 1/4W	R438	1-249-405-11	CARBON	100 5% 1/4W
R375	1-249-405-11	CARBON	100 5% 1/4W	R439	1-249-417-11	CARBON	1K 5% 1/4W
R376	1-249-417-11	CARBON	1K 5% 1/4W	R440	1-249-425-11	CARBON	4.7K 5% 1/4W
R377	1-249-437-11	CARBON	47K 5% 1/4W	R441	1-249-417-11	CARBON	1K 5% 1/4W
R378	1-249-433-11	CARBON	22K 5% 1/4W	R442	1-247-700-11	CARBON	100 5% 1/4W
R379	1-249-430-11	CARBON	12K 5% 1/4W	R443	1-249-421-11	CARBON	2.2K 5% 1/4W
R380	1-249-405-11	CARBON	100 5% 1/4W				

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• The components identified by Δ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

PVM-2042QM/2044QM

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R444	1-249-419-11	CARBON	1.5K 5% 1/4W	R509	1-249-423-11	CARBON	3.3K 5% 1/4W F
R445	1-249-417-11	CARBON	1K 5% 1/4W	R510	1-216-454-11	METAL OXIDE	390 5% 2W F
R446	1-249-422-11	CARBON	2.7K 5% 1/4W	R511	1-215-447-00	METAL	12K 1% 1/6W
R447	1-249-429-11	CARBON	10K 5% 1/4W	R512 Δ	1-212-883-91	FUSIBLE	120 5% 1/4W F
R448	1-247-883-00	CARBON	150K 5% 1/4W	R513	1-249-383-11	CARBON	1.5 5% 1/4W F
R449	1-249-462-11	CARBON	22K 5% 1/4W	R514	1-216-367-11	METAL OXIDE	0.68 5% 2W F
R450	1-249-409-11	CARBON	220 5% 1/4W	R515	1-215-858-00	METAL OXIDE	15 5% 1W F
R451	1-247-704-11	CARBON	220 5% 1/4W	R516	1-214-888-00	METAL	10K 1% 1/2W
R452	1-249-409-11	CARBON	220 5% 1/4W	R517	1-214-763-00	METAL	27K 1% 1/4W
R453	1-247-704-11	CARBON	220 5% 1/4W	R518	1-214-783-00	METAL	180K 1% 1/4W
R454	1-249-417-11	CARBON	1K 5% 1/4W	R519	1-214-917-00	METAL	150K 1% 1/2W
R455	1-249-409-11	CARBON	220 5% 1/4W	R520	1-215-467-00	METAL	82K 1% 1/6W
R456	1-249-409-11	CARBON	220 5% 1/4W	R521	1-215-445-00	METAL	10K 1% 1/6W
R457	1-249-409-11	CARBON	220 5% 1/4W	R522	1-247-887-00	CARBON	220K 5% 1/4W
R458	1-249-433-11	CARBON	22K 5% 1/4W	R523	1-215-435-00	METAL	3.9K 1% 1/6W
R459	1-249-425-11	CARBON	4.7K 5% 1/4W	R524	1-249-469-11	CARBON	100K 5% 1/4W
R460	1-249-425-11	CARBON	4.7K 5% 1/4W	R525	1-215-445-00	METAL	10K 1% 1/6W
R461	1-249-433-11	CARBON	22K 5% 1/4W	R526	1-215-439-00	METAL	5.6K 1% 1/6W
R462	1-249-386-11	CARBON	2.7 5% 1/4W F	R527	1-249-417-11	CARBON	1K 5% 1/4W
R464	1-259-883-11	CARBON	3.9M 5% 1/4W	R528	1-215-877-11	METAL OXIDE	22K 5% 1W F
R465	1-249-465-11	CARBON	47K 5% 1/4W	R529	1-216-360-11	METAL OXIDE	8.2 5% 1W F
R466	1-249-421-11	CARBON	2.2K 5% 1/4W	R530	1-216-427-00	METAL OXIDE	120 5% 1W F
R467	1-249-431-11	CARBON	15K 5% 1/4W	R531	1-247-756-11	CARBON	2.2K 5% 1/2W F
R468	1-249-431-11	CARBON	15K 5% 1/4W	R532	1-249-436-11	CARBON	39K 5% 1/4W
R469	1-247-897-11	CARBON	560K 5% 1/4W	R533	1-249-422-11	CARBON	2.7K 5% 1/4W
R470	1-249-437-11	CARBON	47K 5% 1/4W	R534	1-247-719-11	CARBON	3.3K 5% 1/4W
R471	1-249-429-11	CARBON	10K 5% 1/4W	R535	1-215-441-00	METAL	6.8K 1% 1/6W
R472	1-249-417-11	CARBON	1K 5% 1/4W	R536	1-249-433-11	CARBON	22K 5% 1/4W
R473	1-249-437-11	CARBON	47K 5% 1/4W	R537	1-249-417-11	CARBON	1K 5% 1/4W F
R474	1-249-429-11	CARBON	10K 5% 1/4W	R538	1-249-430-11	CARBON	12K 5% 1/4W
R475	1-249-417-11	CARBON	1K 5% 1/4W	R539	1-247-883-00	CARBON	150K 5% 1/4W
R476	1-249-401-11	CARBON	47 5% 1/4W	R540	1-246-535-00	CARBON	390K 5% 1/4W
R477	1-249-417-11	CARBON	1K 5% 1/4W	R541	1-247-889-00	CARBON	270K 5% 1/4W
R478	1-249-401-11	CARBON	47 5% 1/4W	R542	1-249-438-11	CARBON	56K 5% 1/4W
R479	1-249-417-11	CARBON	1K 5% 1/4W	R543	1-247-903-00	CARBON	1K 5% 1/4W
R480	1-249-401-11	CARBON	47 5% 1/4W	R544	1-215-447-00	METAL	12K 1% 1/6W
R481	1-249-433-11	CARBON	22K 5% 1/4W	R545	1-249-417-11	CARBON	1K 5% 1/4W
R482	1-249-433-11	CARBON	22K 5% 1/4W	R546	1-249-409-11	CARBON	220 5% 1/4W
R483	1-249-433-11	CARBON	22K 5% 1/4W	R547	1-249-414-11	CARBON	560 5% 1/4W
R484	1-247-891-00	CARBON	330K 5% 1/4W	R548	1-249-415-11	CARBON	680 5% 1/4W
R485	1-247-891-00	CARBON	330K 5% 1/4W	R549	1-215-473-00	METAL	150K 1% 1/6W
R486	1-249-433-11	CARBON	22K 5% 1/4W	R550	1-249-433-11	CARBON	22K 5% 1/4W
R487	1-249-433-11	CARBON	22K 5% 1/4W	R551	1-247-688-11	CARBON	10 5% 1/4W F
R488	1-249-418-11	CARBON	1.2K 5% 1/4W F	R552	1-249-421-11	CARBON	2.2K 5% 1/4W
R489	1-249-421-11	CARBON	2.2K 5% 1/4W	R553	1-249-429-11	CARBON	10K 5% 1/4W
R490	1-247-895-00	CARBON	470K 5% 1/4W	R554	1-249-461-11	CARBON	18K 5% 1/4W
R491	1-249-420-11	CARBON	1.8K 5% 1/4W	R555	1-249-426-11	CARBON	5.6K 5% 1/4W
R492	1-249-417-11	CARBON	1K 5% 1/4W	R556	1-247-707-11	CARBON	390 5% 1/4W
R493	1-249-441-11	CARBON	100K 5% 1/4W	R557	1-215-463-00	METAL	56K 1% 1/6W
R494	1-249-413-11	CARBON	470 5% 1/4W	R558	1-215-457-00	METAL	33K 1% 1/6W
R495	1-249-433-11	CARBON	22K 5% 1/4W	R559	1-215-453-00	METAL	22K 1% 1/6W
R496	1-249-433-11	CARBON	22K 5% 1/4W	R560	1-215-479-00	METAL	270K 1% 1/6W
R497	1-249-437-11	CARBON	47K 5% 1/4W	R561	1-249-435-11	CARBON	33K 5% 1/4W
R498	1-249-433-11	CARBON	22K 5% 1/4W	R562	1-249-422-11	CARBON	2.7K 5% 1/4W
R499	1-249-433-11	CARBON	22K 5% 1/4W	R563	1-249-428-11	CARBON	8.2K 5% 1/4W
R500 Δ		METAL	1/6W	R564	1-215-445-00	METAL	10K 1% 1/6W
R501	1-247-711-11	CARBON	680 5% 1/4W F	R565	1-249-413-11	CARBON	470 5% 1/4W F
R502	1-216-464-11	METAL OXIDE	18K 5% 2W F	R566	1-216-350-11	METAL OXIDE	1.2 5% 1W F
R503	1-249-440-11	CARBON	82K 5% 1/4W	R567	1-216-350-11	METAL OXIDE	1.2 5% 1W F
R504	1-249-426-11	CARBON	5.6K 5% 1/4W	R568	1-249-401-11	CARBON	47 5% 1/4W F
R505	1-249-440-11	CARBON	82K 5% 1/4W	R569	1-215-869-11	METAL OXIDE	1K 5% 1W F
R506	1-249-431-11	CARBON	15K 5% 1/4W	R570	1-247-697-11	CARBON	56 5% 1/4W F
R507	1-215-458-00	METAL	36K 1% 1/6W	R571	1-215-867-00	METAL OXIDE	470 5% 1W F
R508	1-247-723-11	CARBON	6.8K 5% 1/4W F				

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The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R572	1-216-355-11	METAL OXIDE	3.3 5% 1W F	R836	1-247-897-11	CARBON	560K 5% 1/4W
R573	1-247-746-11	CARBON	390 5% 1/2W	R837	1-215-469-00	METAL	100K 1% 1/6W
R574	1-249-425-11	CARBON	4.7K 5% 1/4W	R838	1-246-531-00	CARBON	270K 5% 1/4W
R575	1-247-688-11	CARBON	10 5% 1/4W F	R840	1-247-696-11	CARBON	47 5% 1/4W
R576	1-247-889-00	CARBON	270K 5% 1/4W	R842	1-249-409-11	CARBON	220 5% 1/4W
R577	1-249-396-11	CARBON	18 5% 1/4W	R843	1-247-704-11	CARBON	220 5% 1/4W
R578	1-249-433-11	CARBON	22K 5% 1/4W	R844	1-249-417-11	CARBON	1K 5% 1/4W
R579	1-249-433-11	CARBON	22K 5% 1/4W	R845	1-247-725-11	CARBON	10K 5% 1/4W
R580	1-249-433-11	CARBON	22K 5% 1/4W	R846	1-215-439-00	METAL	5.6K 1% 1/6W
R581	1-249-429-11	CARBON	10K 5% 1/4W	R847	1-249-433-11	CARBON	22K 5% 1/4W
R582	1-249-429-11	CARBON	10K 5% 1/4W	R848	1-249-433-11	CARBON	22K 5% 1/4W
R583	1-249-438-11	CARBON	56K 5% 1/4W	R850	1-249-440-11	CARBON	82K 5% 1/4W
R584	1-247-881-00	CARBON	120K 5% 1/4W	R851	1-249-439-11	CARBON	68K 5% 1/4W
R585	1-249-431-11	CARBON	15K 5% 1/4W	R852	1-249-437-11	CARBON	47K 5% 1/4W
R586	1-215-453-00	METAL	22K 1% 1/6W	R853	1-247-710-11	CARBON	560 5% 1/4W
R587	1-249-429-11	CARBON	10K 5% 1/4W	R855	1-249-414-11	CARBON	560 5% 1/4W
R588	1-247-688-11	CARBON	10 5% 1/4W F	R856	1-249-429-11	CARBON	10K 5% 1/4W
R589	1-249-417-11	CARBON	1K 5% 1/4W	R857	1-247-725-11	CARBON	10K 5% 1/4W
R590	1-249-433-11	CARBON	22K 5% 1/4W	R858	1-249-433-11	CARBON	22K 5% 1/4W
R591	1-249-433-11	CARBON	22K 5% 1/4W	R860	1-249-425-11	CARBON	4.7K 5% 1/4W
R592	1-249-417-11	CARBON	1K 5% 1/4W	R861	1-249-437-11	CARBON	47K 5% 1/4W
R593	1-249-425-11	CARBON	4.7K 5% 1/4W	R862	1-249-425-11	CARBON	4.7K 5% 1/4W
R594	1-247-719-11	CARBON	3.3K 5% 1/4W	R863	1-247-721-11	CARBON	4.7K 5% 1/4W
R595	1-249-417-11	CARBON	1K 5% 1/4W	R864	1-247-717-11	CARBON	2.2K 5% 1/4W
R596	1-247-721-11	CARBON	4.7K 5% 1/4W F	R866	1-249-426-11	CARBON	5.6K 5% 1/4W
R597	1-215-441-00	METAL	6.8K 1% 1/6W	R867	1-249-426-11	CARBON	5.6K 5% 1/4W
R598	1-247-725-11	CARBON	10K 5% 1/4W	R868	1-249-421-11	CARBON	2.2K 5% 1/4W
R599	1-247-711-11	CARBON	680 5% 1/4W F	R869	1-249-425-11	CARBON	4.7K 5% 1/4W
R800	1-215-449-00	METAL	15K 1% 1/6W	R870	1-249-426-11	CARBON	5.6K 5% 1/4W
R801	1-247-889-00	CARBON	270K 5% 1/4W	R871	1-247-723-11	CARBON	6.8K 5% 1/4W
R802	1-215-429-00	METAL	2.2K 1% 1/6W	R872	1-249-417-11	CARBON	1K 5% 1/4W
R803	1-249-465-11	CARBON	47K 5% 1/4W	R873	1-249-437-11	CARBON	47K 5% 1/4W
R804	1-247-726-11	CARBON	33K 5% 1/4W F	R874	1-215-437-00	METAL	4.7K 1% 1/6W
R805	1-249-407-11	CARBON	150 5% 1/4W	R875	1-215-453-00	METAL	22K 1% 1/6W
R806	1-249-412-11	CARBON	390 5% 1/4W	R876	1-249-429-11	CARBON	10K 5% 1/4W
R807	1-249-437-11	CARBON	47K 5% 1/4W	R877	1-249-417-11	CARBON	1K 5% 1/4W
R808	1-249-433-11	CARBON	22K 5% 1/4W	R878	1-249-429-11	CARBON	10K 5% 1/4W
R809	1-215-477-00	METAL	220K 1% 1/6W	R879	1-249-437-11	CARBON	47K 5% 1/4W
R810	1-215-467-00	METAL	82K 1% 1/6W	R880	1-249-417-11	CARBON	1K 5% 1/4W
R811	1-249-429-11	CARBON	10K 5% 1/4W	R881	1-249-423-11	CARBON	3.3K 5% 1/4W
R812	1-249-427-11	CARBON	6.8K 5% 1/4W	R883	1-249-409-11	CARBON	220 5% 1/4W
R813	1-249-405-11	CARBON	100 5% 1/4W	R884	1-249-417-11	CARBON	1K 5% 1/4W
R814	1-249-417-11	CARBON	1K 5% 1/4W	R885	1-249-469-11	CARBON	100K 5% 1/4W
R815	1-249-409-11	CARBON	220 5% 1/4W	R886	1-247-725-11	CARBON	10K 5% 1/4W
R816	1-249-429-11	CARBON	10K 5% 1/4W	R887	1-249-409-11	CARBON	220 5% 1/4W
R817	1-247-881-00	CARBON	120K 5% 1/4W	R1001	1-247-717-11	CARBON	2.2K 5% 1/4W
R818	1-247-881-00	CARBON	120K 5% 1/4W	R1002	1-249-429-11	CARBON	10K 5% 1/4W
R819	1-247-903-00	CARBON	1K 5% 1/4W	R1003	1-249-405-11	CARBON	100 5% 1/4W
R820	1-249-426-11	CARBON	5.6K 5% 1/4W	R1004	1-247-725-11	CARBON	10K 5% 1/4W
R821	1-247-881-00	CARBON	120K 5% 1/4W	R1005	1-249-437-11	CARBON	47K 5% 1/4W
R822	1-249-417-11	CARBON	1K 5% 1/4W	R1006	1-249-439-11	CARBON	68K 5% 1/4W
R823	1-247-696-11	CARBON	47 5% 1/4W F	R1007	1-249-433-11	CARBON	22K 5% 1/4W
R824	1-249-439-11	CARBON	68K 5% 1/4W	R1009	1-249-429-11	CARBON	10K 5% 1/4W
R825	1-249-437-11	CARBON	47K 5% 1/4W	R1010	1-249-415-11	CARBON	680 5% 1/4W
R826	1-249-417-11	CARBON	1K 5% 1/4W	R1011	1-249-455-11	CARBON	4.7 5% 1/4W
R827	1-249-417-11	CARBON	1K 5% 1/4W	R1012	1-216-355-11	METAL OXIDE	3.3 5% 1W F
R828	1-249-417-11	CARBON	1K 5% 1/4W	R1013	1-249-413-11	CARBON	470 5% 1/4W
R829	1-249-421-11	CARBON	2.2K 5% 1/4W	R1014	1-249-414-11	CARBON	560 5% 1/4W
R830	1-249-435-11	CARBON	33K 5% 1/4W	R1015	1-215-867-00	METAL OXIDE	470 5% 1W F
R831	1-249-438-11	CARBON	56K 5% 1/4W	R1016	1-247-698-11	CARBON	68 5% 1/4W
R832	1-249-417-11	CARBON	1K 5% 1/4W	R1017	1-249-421-11	CARBON	2.2K 5% 1/4W
R833	1-249-425-11	CARBON	4.7K 5% 1/4W	R1018	1-249-437-11	CARBON	47K 5% 1/4W
R834	1-249-425-11	CARBON	4.7K 5% 1/4W	R1019A	1-212-857-91	FUSIBLE	10 5% 1/4W F
R835	1-247-889-00	CARBON	270K 5% 1/4W				

A

XA

W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1020	1-249-429-11	CARBON 10K 5% 1/4W	
R1021	1-249-434-11	CARBON 27K 5% 1/4W	
R1022	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1023	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1024	1-247-903-00	CARBON 1M 5% 1/4W	
R1025	1-249-429-11	CARBON 10K 5% 1/4W	
R1026	1-249-429-11	CARBON 10K 5% 1/4W	
R1027	1-215-454-00	METAL 24K 1% 1/6W	
R1301	1-249-429-11	CARBON 10K 5% 1/4W	
R1302	1-247-725-11	CARBON 10K 5% 1/4W	
R1303	1-249-429-11	CARBON 10K 5% 1/4W	
R1304	1-249-405-11	CARBON 100 5% 1/4W	
R1306	1-247-700-11	CARBON 100 5% 1/4W	
R1307	1-249-421-11	CARBON 2.2K 5% 1/4W	

<VARIABLE RESISTOR>

RV002	1-228-993-00	RES, ADJ, CARBON 4.7K	
RV003	1-228-993-00	RES, ADJ, CARBON 4.7K	
RV004	1-228-993-00	RES, ADJ, CARBON 4.7K	
RV005	1-228-996-00	RES, ADJ, CARBON 47K	
RV006	1-228-994-00	RES, ADJ, CARBON 10K	
RV007	1-228-994-00	RES, ADJ, CARBON 10K	
RV401	1-228-995-00	RES, ADJ, CARBON 22K	
RV501	1-228-993-00	RES, ADJ, METAL GLAZE 4.7K	
RV502	1-223-102-00	RES, ADJ, WIREWOUND 120	
RV503	1-228-995-00	RES, ADJ, METAL GLAZE 22K	
RV504	1-228-990-00	RES, ADJ, CARBON 1K	
RV505	1-228-995-00	RES, ADJ, CARBON 22K	
RV506	1-228-989-00	RES, ADJ, CARBON 470	
RV507	1-224-250-99	RES, ADJ, METAL GLAZE 2.2K	
RV508	1-228-994-00	RES, ADJ, CARBON 10K	
RV509	1-228-998-00	RES, ADJ, CARBON 220K	
RV510	1-228-996-00	RES, ADJ, CARBON 47K	
RV511	1-228-989-00	RES, ADJ, CARBON 470	
RV512	1-228-995-00	RES, ADJ, CARBON 22K	
RV513	1-228-993-00	RES, ADJ, METAL GLAZE 4.7K	
RV514	1-228-996-00	RES, ADJ, CARBON 47K	
RV550	1-228-993-00	RES, ADJ, CARBON 4.7K	

<TRANSFORMER>

T502 1-437-131-00 TRANSFORMER, DRIVE

<THERMISTOR>

TH501 1-806-110-00 THERMISTOR

*1-629-151-11 XA BOARD

<CAPACITOR>

C1300	1-101-005-00	CERAMIC 0.022MF	50V
C1301	1-101-888-00	CERAMIC 68PF	50V
C1302	1-101-884-00	CERAMIC 56PF	50V
C1303	1-102-942-00	CERAMIC 5PF	50V
C1304	1-102-947-00	CERAMIC 10PF	50V
C1305	1-102-947-00	CERAMIC 10PF	50V
C1306	1-102-951-00	CERAMIC 15PF	50V
C1307	1-102-951-00	CERAMIC 15PF	50V
C1308	1-126-101-11	ELECT 100MF	16V
C1309	1-102-125-00	CERAMIC 0.0047MF	50V

REF. NO. PART NO. DESCRIPTION

REMARK

<TRIMMER>

CV3 1-141-337-11 CAP, VAR, TRIMMER
CV4 1-141-337-11 CAP, VAR, TRIMMER

<COIL>

L1300 1-408-429-00 INDUCTOR 470UH
L1301 1-408-429-00 INDUCTOR 470UH
L1302 1-408-429-00 INDUCTOR 470UH
L1303 1-408-429-00 INDUCTOR 470UH

<TRANSISTOR>

Q1300 8-729-119-78 TRANSISTOR 2SC2785-HFE
Q1301 8-729-900-89 TRANSISTOR DTC144ES
Q1302 8-729-119-78 TRANSISTOR 2SC2785-HFE
Q1303 8-729-119-78 TRANSISTOR 2SC2785-HFE
Q1304 8-729-119-78 TRANSISTOR 2SC2785-HFE

Q1305 8-729-119-78 TRANSISTOR 2SC2785-HFE

<RESISTOR>

R1301 1-249-413-11 CARBON 470 5% 1/4W
R1302 1-249-415-11 CARBON 680 5% 1/4W
R1303 1-249-415-11 CARBON 680 5% 1/4W
R1304 1-249-427-11 CARBON 6.8K 5% 1/4W
R1305 1-249-413-11 CARBON 470 5% 1/4W
R1306 1-249-413-11 CARBON 470 5% 1/4W
R1308 1-249-417-11 CARBON 1K 5% 1/4W
R1310 1-249-441-11 CARBON 100K 5% 1/4W
R1311 1-249-441-11 CARBON 100K 5% 1/4W
R1312 1-249-441-11 CARBON 100K 5% 1/4W
R1313 1-249-441-11 CARBON 100K 5% 1/4W
R1320 1-249-429-11 CARBON 10K 5% 1/4W
R1321 1-249-429-11 CARBON 10K 5% 1/4W
R1322 1-249-429-11 CARBON 10K 5% 1/4W
R1323 1-249-429-11 CARBON 10K 5% 1/4W

<CRYSTAL>

X358 1-567-505-11 OSCILLATOR, CRYSTAL
X443 1-567-504-11 OSCILLATOR, CRYSTAL

<CONNECTOR>

XA1 *1-565-483-11 CONNECTOR, BOARD TO BOARD 7P

*1-629-149-11 W BOARD

<CAPACITOR>

C1400 1-136-169-00 FILM 0.22MF 5% 50V
C1401 1-136-153-00 FILM 0.01MF 5% 50V
C1402 1-126-101-11 ELECT 100MF 20% 16V
C1403 1-102-074-00 CERAMIC 0.001MF 10% 50V
C1404 1-126-101-11 ELECT 100MF 20% 16V
C1405 1-123-875-11 ELECT 10MF 20% 50V
C1406 1-124-902-00 ELECT 0.47MF 20% 50V



The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF.NO. PART NO. DESCRIPTION

<DIODE>

D1400 8-719-911-19 DIODE 1SS119
D1401 8-719-911-19 DIODE 1SS119

<IC>

IC1400 8-759-135-80 IC UPC358C

<TRANSISTOR>

Q1400 8-729-119-78 TRANSISTOR 2SC2785-HFE
Q1401 8-729-119-76 TRANSISTOR 2SA1175-HFE
Q1402 8-729-119-78 TRANSISTOR 2SC2785-HFE
Q1403 8-729-119-78 TRANSISTOR 2SC2785-HFE

<RESISTOR>

R1400 1-249-437-11 CARBON 47K 5% 1/4W
R1401 1-249-415-11 CARBON 680 5% 1/4W
R1402 1-247-895-00 CARBON 470K 5% 1/4W
R1403 1-247-903-00 CARBON 1M 5% 1/4W
R1404 1-249-438-11 CARBON 56K 5% 1/4W

R1405 1-249-433-11 CARBON 22K 5% 1/4W
R1406 1-249-411-11 CARBON 330 5% 1/4W
R1407 1-249-433-11 CARBON 22K 5% 1/4W
R1408 1-249-411-11 CARBON 330 5% 1/4W
R1409 1-249-429-11 CARBON 10K 5% 1/4W

R1410 1-249-409-11 CARBON 220 5% 1/4W
R1411 1-249-426-11 CARBON 5.6K 5% 1/4W
R1412 1-249-411-11 CARBON 330 5% 1/4W
R1413 1-247-883-00 CARBON 150K 5% 1/4W
R1414 1-249-429-11 CARBON 10K 5% 1/4W

R1416 1-249-429-11 CARBON 10K 5% 1/4W
R1417 1-249-433-11 CARBON 22K 5% 1/4W
R1418 1-249-439-11 CARBON 68K 5% 1/4W
R1419 1-249-440-11 CARBON 82K 5% 1/4W
R1420 1-249-441-11 CARBON 100K 5% 1/4W

R1421 1-247-881-00 CARBON 120K 5% 1/4W

<CONNECTOR>

W1 *1-565-482-11 CONNECTOR, BOARD TO BOARD 6P
W2 *1-564-508-11 PLUG, CONNECTOR 5P

*1-632-005-11 H BOARD

*1-564-517-11 PLUG, CONNECTOR 2P

<DIODE>

D951 8-719-920-21 DIODE LT-9220H (PVM-2044QM ONLY)

<CONNECTOR>

H1 *1-564-519-11 PLUG, CONNECTOR 4P

<SWITCH>

S951 Δ 1-554-118-22 SWITCH, PUSH (1 KEY) (DEGAUSS SWITCH)
S952 1-554-118-00 SWITCH, PUSH (1 KEY)

REMARK

REF.NO. PART NO.

DESCRIPTION

REMARK

*1-629-153-11 J BOARD

*1-568-106-11 PIN, CONNECTOR 7P

MISCELLANEOUS

Δ 1-237-614-12 RESISTOR ASSY, HIGH-VOLTAGE
 Δ 1-426-450-11 COIL, DEMAGNETIZATION
 Δ 1-451-349-11 DEFLECTION YOKE (Y20FZA)
1-452-032-00 MAGNET, DISK; 10MM ϕ
1-452-094-00 MAGNET, ROTABLE DISK; 15MM ϕ

1-452-277-00 MAGNET, BMC
1-466-076-11 CONTROL UNIT (PVM-2042QM ONLY)
1-466-198-11 CONTROL UNIT (PVM-2044QM ONLY)
1-509-718-00 DIN 4P SOCKET (PVM-2044QM ONLY)
1-543-604-11 CORE, RING
1-544-063-11 SPEAKER

 Δ 1-574-389-12 CORD, POWER (WITH CONNECTOR)

S901 Δ 1-554-967-12 SWITCH, PUSH (AC POWER) (1 KEY)
V901 Δ 8-736-122-05 PICTURE TUBE (M49KGH21X)

ACCESSORIES AND PACKING MATERIALS

PART NO. DESCRIPTION REMARK

X-4391-815-1 BRACKET ASSY
*3-704-318-01 BAG, PROTECTION
3-750-719-11 MANUAL, INSTRUCTION
*4-393-327-01 PLATE, NUMBER, TALLY (PVM-2044QM ONLY)

*4-393-346-01 CUSHION (UPPER) (ASSY)
*4-393-347-01 CUSHION (LOWER) (ASSY)
*4-393-353-01 INDIVIDUAL CARTON (PVM-2044QM ONLY)
*4-393-355-01 INDIVIDUAL CARTON (PVM-2042QM ONLY)
7-682-247-09 SCREW +K 3X6